

Service Manual

ORDER NO.
CRT4191

DVD PLAYER

AVH-P5080DVD /X1FBR



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This service manual should be used together with the following manual(s) listed below.
For the parts numbers, adjustments, etc. which are not shown in this manual,
refer to the following manual(s).

Model No.	Order No.	Mech. Module	Remarks
AVH-P5050DVD/XN/RC	CRT4122		
CX-3212	CRT3896	MS5	DVD Mech. Module : Circuit Descriptions, Mech. Descriptions, Disassembly

EXPLODED VIEWS AND PARTS LIST

PACKING(Page 104)

PACKING SECTION PARTS LIST

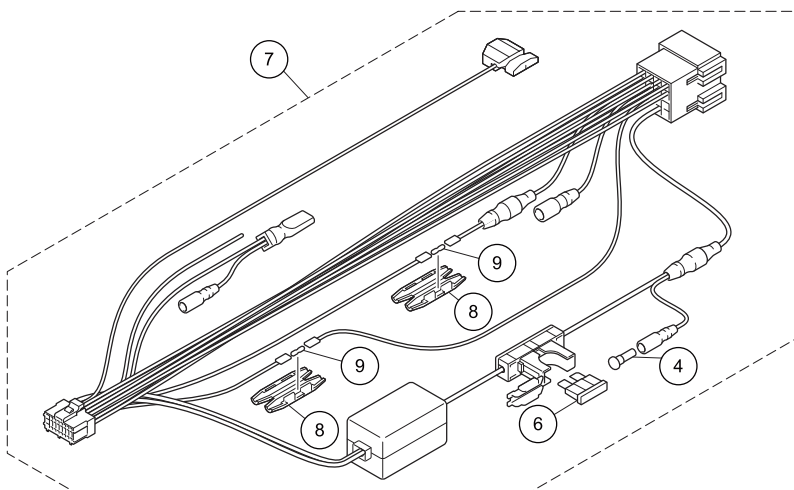
*:Non spare part

Mark	No.	Description	AVH-P5050DVD/XN/RD	AVH-P5080DVD/X1FBR
	3	Cord Assy	CDP1013	CDP1012
	21	Sub Unit Box	CHG6195	CHG6496
	22	Unit Box	CHG6400	CHG6495
	23	Contain Box	CHL6400	CHL6495
	29-1	Owner's Manual	CRB2502 (English)	CRB2512 (Portuguese(B))
	29-2	Owner's Manual	CRB2505 (Spanish)	Not used
	29-3	Owner's Manual	CRB2506 (Portuguese(B))	Not used
	29-4	Installation Manual	CRD4272 (English, Spanish, Portuguese(B))	CRB2513 (Portuguese(B))
	29-5	Caution Card	CRP1310	Not used
*	29-6	Caution Card	Not used	CRN1084
*	29-7	Service Network	Not used	CRY1227

EXTERIOR(4)(Page 114)

EXTERIOR(4) SECTION PARTS LIST

Mark	No.	Description	AVH-P5050DVD/XN/RD	AVH-P5080DVD/X1FBR
	4	Cap	Not used	CKX-003
	7	Cord Assy	CDP1013	CDP1012
	14	Grille Assy	CXC9554	CXC9656
	26	Detachable Grille Assy	CXC9552	CXC9657
	31	Grille Unit	CXC9052	CXC9476



DVD MECHANISM MODULE(Page 116)

DVD MECHANISM MODULE SECTION PARTS LIST

Mark	No.	Description	AVH-P5050DVD/XN/RD	AVH-P5080DVD/X1FBR
	13	Spring	CBH3022	CBH2586
	14	Spring	CBH3023	CBH2588
	17	Spring	CBH3031	CBH2591
	26	Spring	CBH3025	CBH2926
	34	Spring	CBH3024	CBH2898
	76	Compound Unit(A)	CWX3595	CWX3154
	77	Compound Unit(B)	CWX3559	CWX3394

Service Manual

ORDER NO.
CRT3896

DVD MECHANISM MODULE(MS5)

CX-3212

- This service manual describes the operation of the DVD mechanism module incorporated in models listed in the table below.
- When performing repairs use this manual together with the specific manual for model under repair.

Model	Service manual	DVD Mechanism Module
AVIC-D3/XU/UC AVIC-D3/XU/EW5	CRT3879	CXK6601

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1. CIRCUIT DESCRIPTIONS

1. Front end section (MN2DS0016AAUB : IC1501)

MN2DS0016AAUB is a 1 chip LSI for DVD-Player. A DVD-Player system can be constructed by connecting this LSI, driver IC, SDRAM, Flash-ROM, Audio-DAC, etc.

This LSI includes a front end (SODC/FE) which executes RF signal processing, servo processing and decode processing, a back end (AV decoder/BE) which executes video decode processing such as MPEG1/MPEG2/JPEG and audio decode processing such as DVD-Audio/Dolby Digital² /DTS/MP3, and a system controller which controls the system.

The front end section realizes optical head signal computation processing and RF signal processing, digital signal processing (16-8 demodulation, error correction) for DVD-ROM playback according to the DVD specifications, digital signal processing of CD-DA/CD-ROM (error correction), AV decoder transfer, servo control, spindle motor control and seek control.

In the case of MN2DS0016AAUB, the front end servo system waveforms, such as FE, TE and AS, are not observed as in the case of DVD mechanism module (MS4) CX-3183. Please pay attention.

1.1 Analog block (MN2DS0016AAUB : IC1501)

The functions of the analog block are as described below.

1. Reference power circuit
2. SERVO system/DPD system signal processing circuit
Gain switching amplifier and Low Pass Filter (LPF)
3. RF signal processing circuit
RF adding circuit, circuit to make inline, Variable Gain Amplifier (VGA) circuit
4. Laser power control (LPC) circuit
5. A/D converter for SERVO (10 bit, DPD system-4ch), PWM

1.1.1 APC circuit

The optical output of the laser diode (LD) has a large negative temperature characteristic.

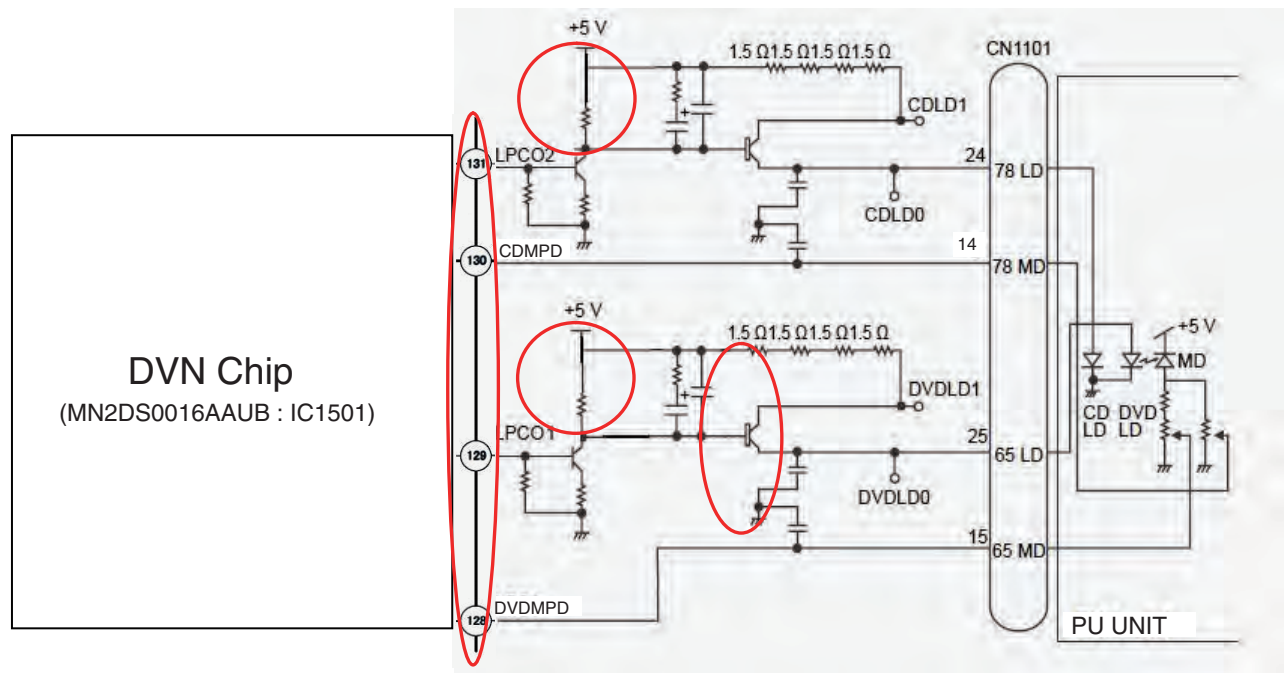
Therefore, if the LD is driven by a constant current, a constant optical output cannot be obtained.

APC circuit is a circuit to control the current so that the output at the monitor diode (MD) will be constant.

MN2DS0016AAUB includes 2 types of APC circuit, one for DVD and the other for CD.

The LD current can be obtained by dividing the measured voltage between DVDLD1 (CDLD1) and 5 V by 6 Ω ($1.5 \Omega \times 4 = 6 \Omega$), in the case of DVD (CD). It will be approximately 50 mA (45 mA) in the case of DVD (CD).

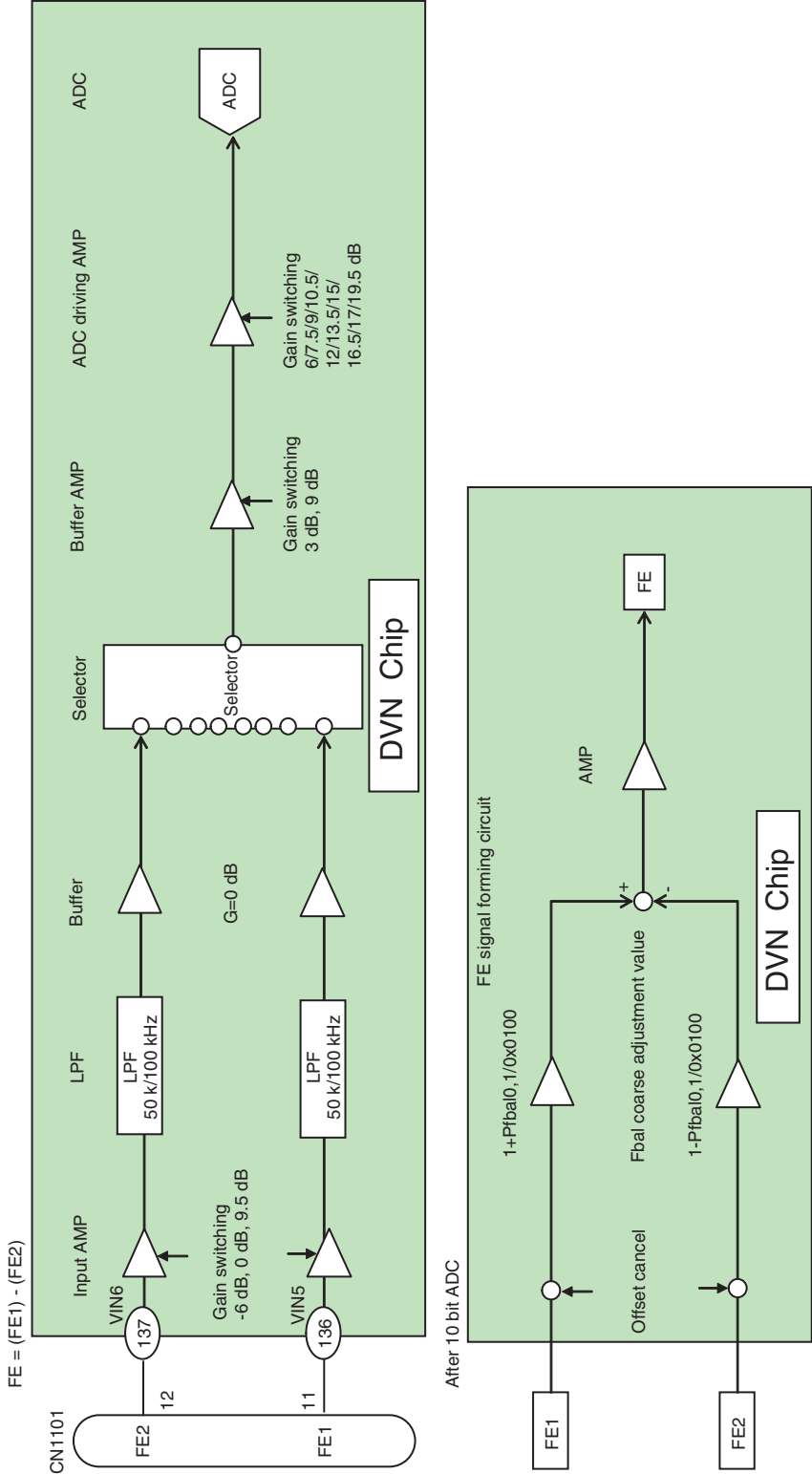
The potential difference between DVDLD1(CDLD1) and 5 V is set to approx. 300 mV(270 mV).



1.1.2 FE forming circuit

Focus error (FE) forming circuit

The signal from PU, FE1 and FE2, are AD converted inside IC1501 and captured. After that, a differential is obtained by taking the offset cancellation into consideration, and FE is obtained.



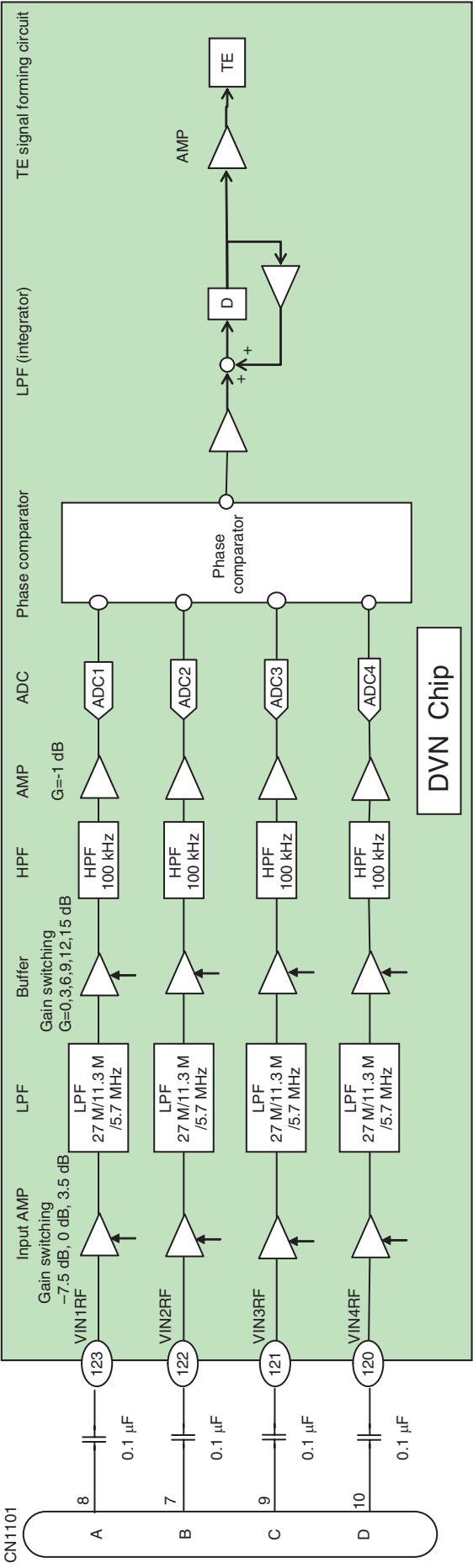
1.1.3 TE forming circuit

Tracking error (TE) forming circuit

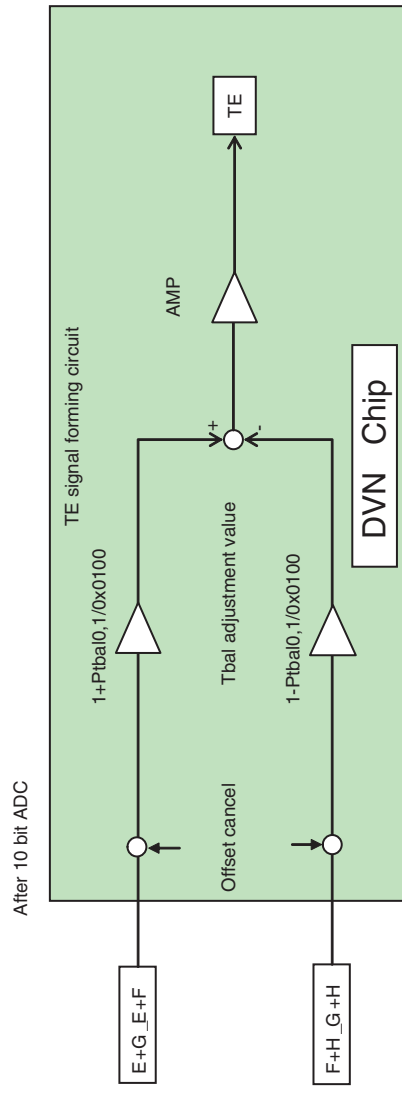
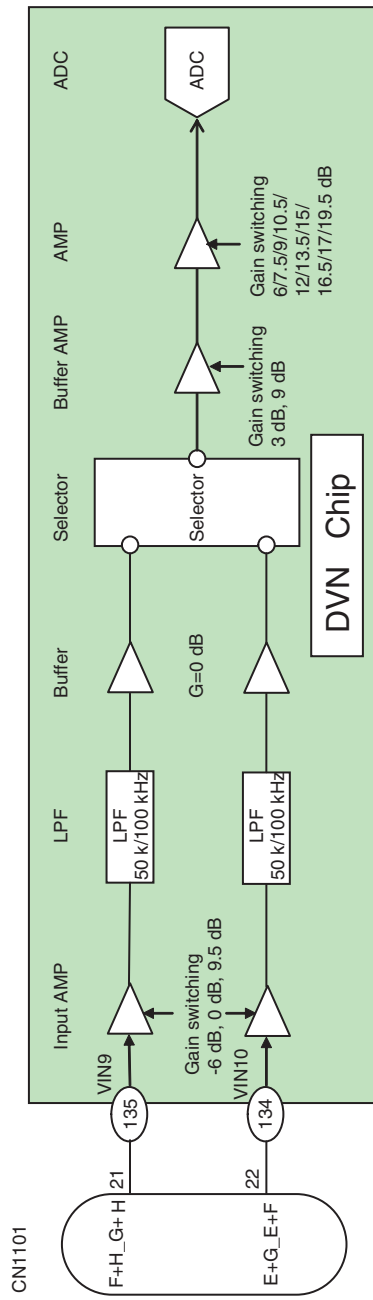
In the case of a DVD, the phase difference method is used for TE forming, and the TE is formed from the phase difference among (A+C) and (B+D).

In the case of a CD, 3 beam method is used, and after entering the signal into a variable amplifier for tracking offset adjustment via an external resistor, it is AD converted, and a TE is formed by the equation of $TE=(E+G_E+F)-(F+H_G+H)$.

- DVD (phase difference TE)



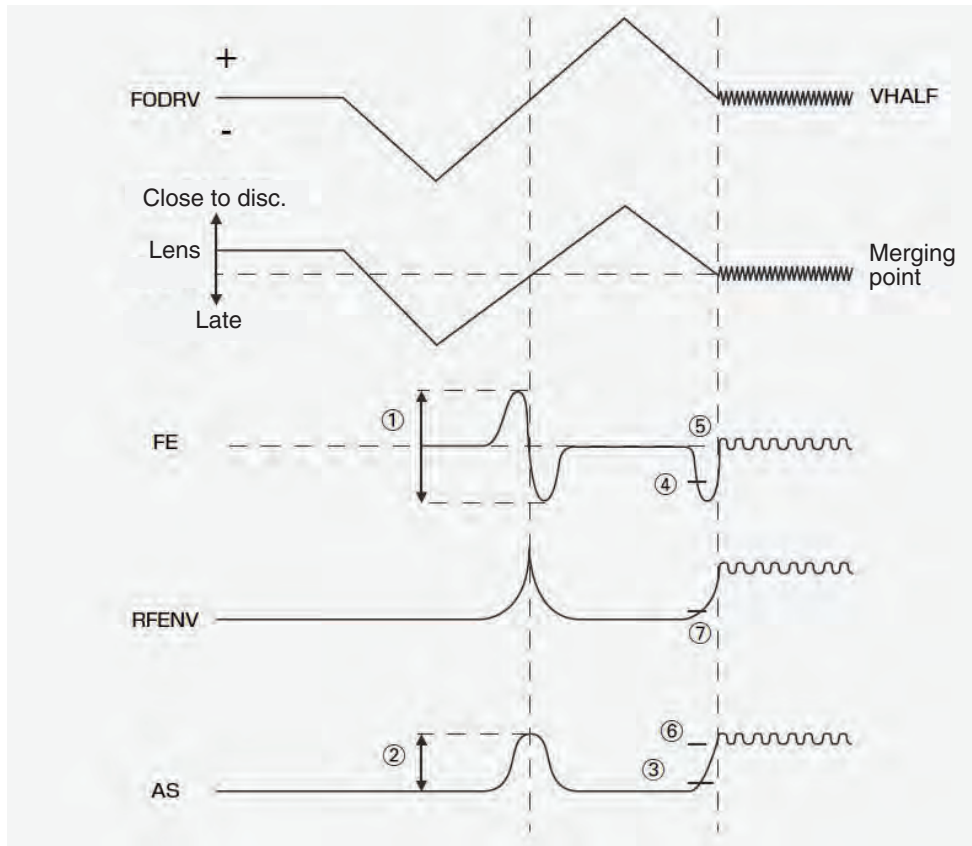
• CD (3 beam TE)



1.2 Servo block (MN2DS0016AAUB : IC1501)

At the servo block, focusing, tracking, servo control of traverse, spindle motor control and seek control are performed.

1.2.1 Focus close



After issuing the focus close command, both the DVD and the CD will perform the following processing.

1. Measurement and optimization of the signal level.

First the PU lens is driven in the direction getting away from the disc, then it is driven in the direction getting close to the disc. At this time, each signal level of FE, AS and RFENV are measured at the focused focal point that the lens passes, and the levels of FE and AS are optimized. (1 and 2 in the figure)

2. Focus adjustment

Next, after detecting the drawing level of FE and AS by driving the lens away from the disc, the focus loop filter is activated and the focus is drawn. (3~6)

3. Confirmation of adjustment

Confirm the drawing at the signal level of AS and RFENV. (6, 7)

The signal levels of FE, AS and RFENV and the focus drive voltage can be checked by the focus search in the test mode.

1.2.2 Tracking close

After issuing the tracking close command, both the DVD and the CD will perform the following processing.

1. Tracking brake

1/2 cycle of the track cross is measured and if the cycle is within the specified range, the brake pulse is output.

The output direction of the brake pulse is determined by the phase relationship of the OFTR and the TKC (binary signal of TE) signals. When it is confirmed that the swinging of the lens against the disc has been controlled, braking will be stopped and enters into drawing. If the drawing conditions are not met within 10 msec, after the brake output, the brake will be ended and entered into drawing.

2. Tracking adjustment

Tracking drive hold processing by the OFTR signal will be performed.

3. Confirmation of adjustment

Checking is made that the number of track jumps within the specified period of time are at the designated numbers or less. The time out for confirmation of adjustment is 8.4 msec. and retry is performed by the command from the microcomputer.

1.2.3 Track jump

In this system, one of the three methods, interval jump, multi jump or traverse seek, is selected depending on the number of target moving tracks.

1. Interval jump

Detailed seek can be performed to execute repeated track jump of 1 track, and it is used when the target track gets close or at the time of seek operation to the adjacent track.

2. Multi jump

Both edges of the track cross signal TKC are counted, and track count move of the designated number is executed. Furthermore, the stepping motor is driven according to the number of jumps.

3. Traverse seek

The stepping motor is controlled by F/W. Track count by TKC is not performed, and the stepping motor is moved according to the number of jumps. In the case of a DVD, seek is performed by maintaining the pick up at the mid point using the mid point servo by the microcomputer.

It indicates the setting for jump switching common to DVD and CD.

Types of target move number of jumps.

DVD

1~10 Interval jump

11~500 Multi jump

501~878 Combination of multi jump and interval jump

879~1756 Traverse seek (short)

1757~ Traverse seek (long)

CD

1~10 Interval jump

11~400 Multi jump

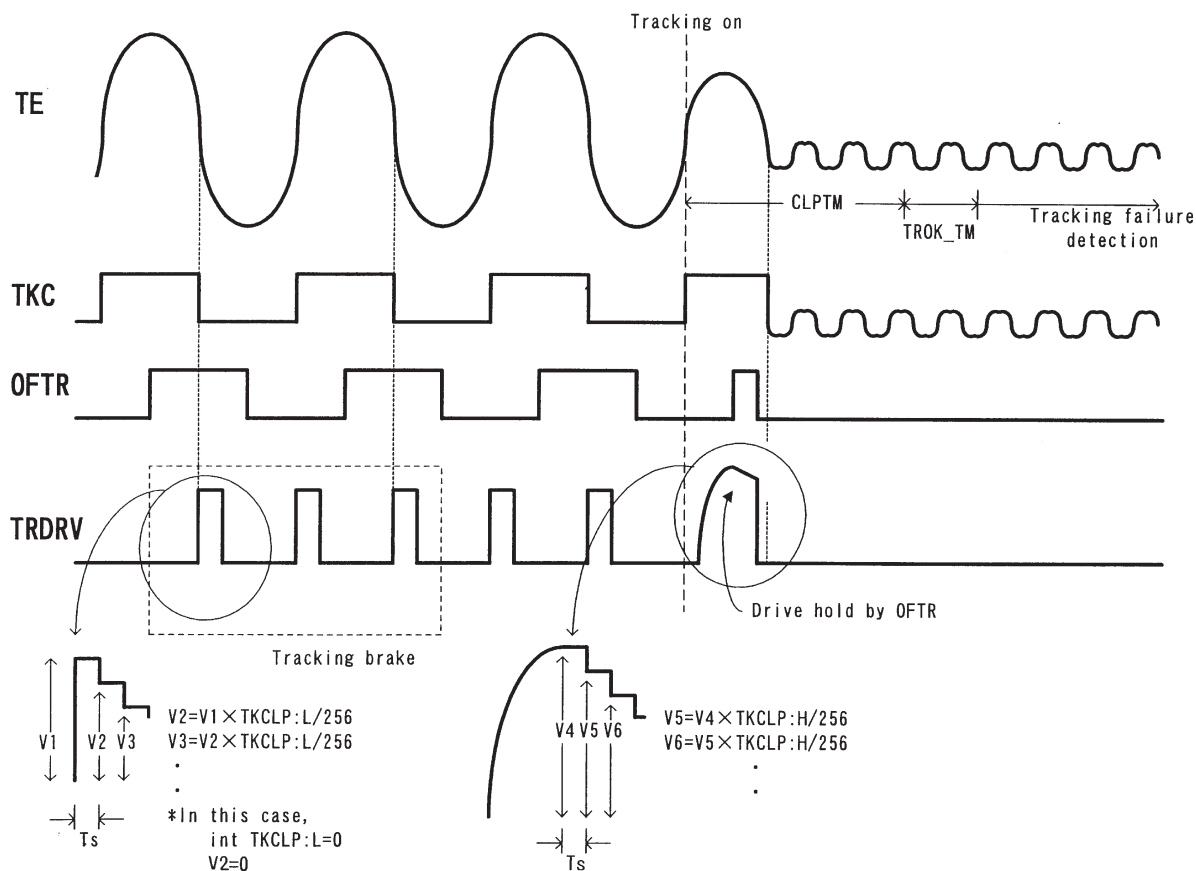
401~780 Combination of multi jump and interval jump

781~928 Traverse seek (short)

929~ Traverse seek (long)

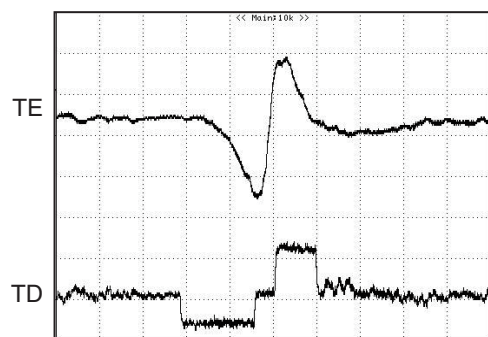
The waveform of track jump is shown on the next page.

Tracking-on process

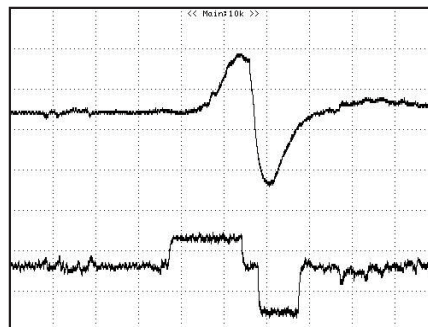


Interval jump (1 track) DVD

Outer peripheral jump

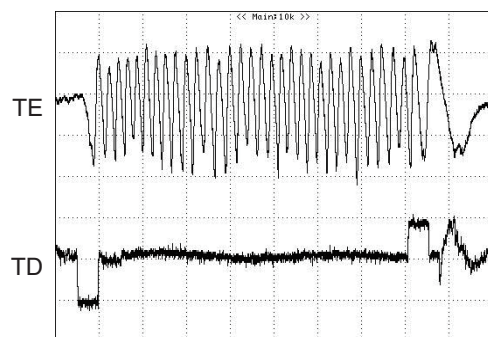


Inner peripheral jump

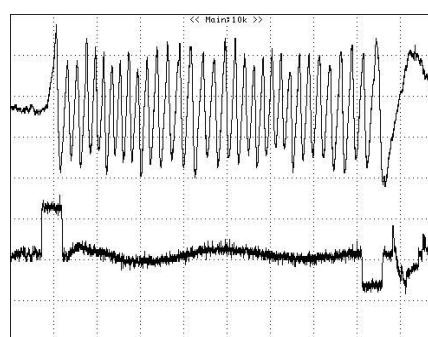


Multi jump (32 track) DVD

Outer peripheral jump

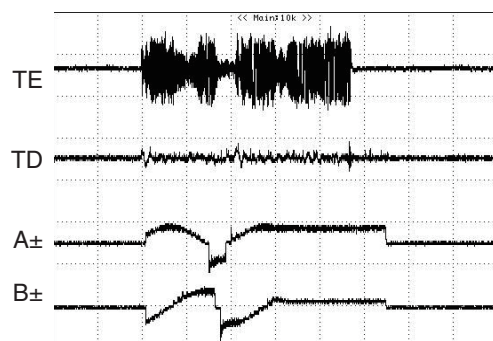


Inner peripheral jump



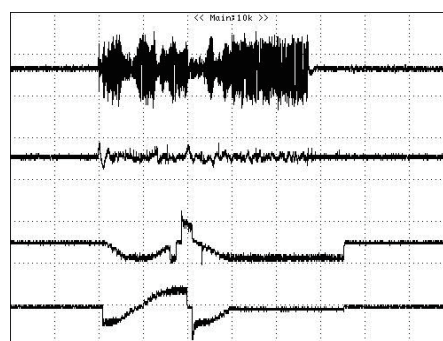
Traverse seek (900 tracks)

Outer peripheral jump



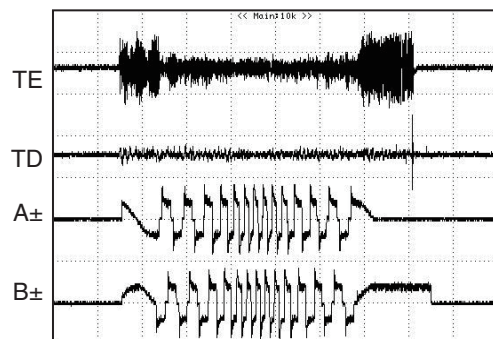
A ± and B ± are measured by setting the LPF of the oscilloscope to 10 kHz.

Inner peripheral jump

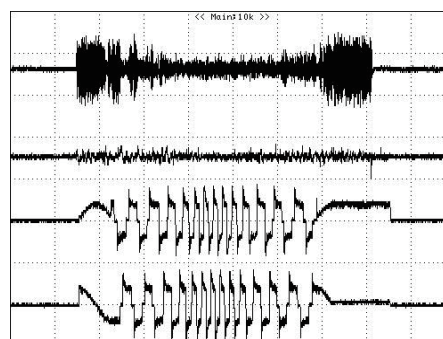


Traverse seek (10 000 tracks)

Outer peripheral jump

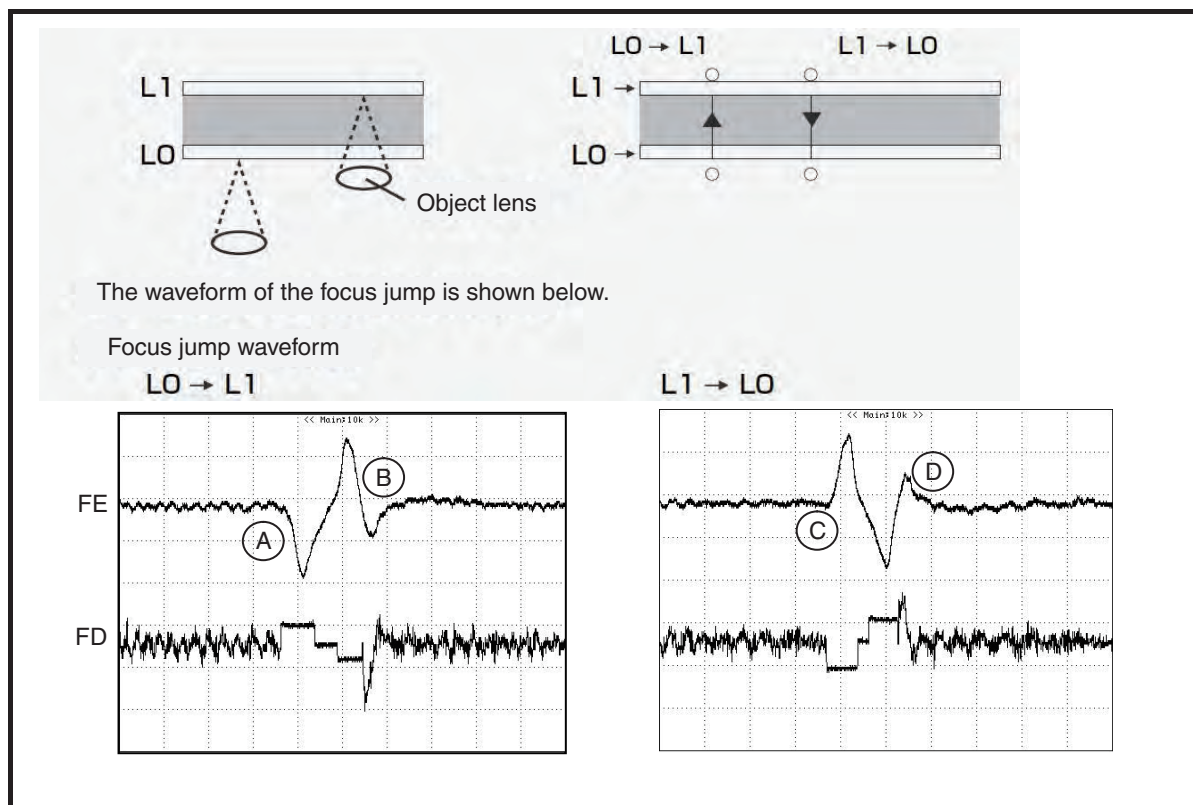


Inner peripheral jump



1.2.4 Focus jump

Focus jump is a function compatible to 2 layers on one side or 2 layers on both sides. Looking from the object lens, the layer close to the lens is called "layer 0" (L0) and the layer away from the lens is called "layer 1" (L1).



The flow of the focus jump is shown below.

1. The tracking is opened by the layer being played back.
2. A command is issued to execute jump to the target layer.
3. The tracking is closed at the layer after the jump and the playback is resumed.

Incidentally, the process when the jump command is issued is as described below.

1. The lens is accelerated to the target layer until the FE signal detects the focus jump acceleration end level. Acceleration will be ended by force, however, if the time for acceleration timeout has elapsed before detecting the acceleration end level.
2. The drive voltage is not output until the FE signal detects the speed reduction start level, and the lens is moved by inertia.
3. The lens speed is reduced from detection of the speed reduction start level until detection of the speed reduction end level. Speed reduction will be ended by force, however, if the time for speed reduction timeout has elapsed before detecting the speed reduction end level.

1.3 Auto adjustment function

All circuit adjustments are automated in this system.
Details of each auto adjustment are explained below.

1.3.1 VIN1, VIN2, VIN3, VIN4, VIN5, VIN6, VIN9, VIN10 offset cancel

Each signal from VIN1~6, 9 and 10 output by PU is converted to a digital signal by the AD converter in the servo block. Offset cancel is a function to cancel input offset of the AD converter at the time of power ON.

1.3.2 VCO gain adjustment (VARI adjustment)

It has a function to absorb variation of VCO gain among individual LSI by learning so that auto adjustment is made to maintain the VCO gain at a certain level. VCO is locked against the reference frequency for learning. And, a frequency control value (FCNT) is read, and VARI register is adjusted so that the read value becomes the same as the target FCNT value.

1.3.3 FE normalization adjustment

FE signal level measured at the time of focus close is adjusted so that it will become 190LSB at the digital equalizer input stage.

1.3.4 Tracking balance (TBAL) adjustment

At the time of focus close and tracking open, the lens is oscillated in the track direction and the balanced point where the DC offset becomes zero is searched and adjusted by using the Newton-Raphson method.

1.3.5 Learning of tracking error amplitude

At the time of focus close and tracking open, the lens is oscillated in the track direction and adjusted so that the TE amplitude level becomes 190 LSB at the digital equalizer input stage.

1.3.6 OFTR adjustment

The binary threshold level is adjusted to make the OFTR signal into a binary digit.

1.3.7 RF gain adjustment

The gain setting is adjusted by the VGA value in order to set the gain setting of the RF forming circuit to an optimum one according to the PU output.

1.3.8 Focus balance (FBAL) adjustment

The focus position is adjusted so that the RFENV will be the maximum at the time of focus close · tracking open and tracking close.

1.3.9 Focus gain adjustment, tracking gain adjustment

At the time of tracking close, a disturbance is entered into the servo loop to adjust to the target gain intersection.

1.3.10 AS normalization adjustment

The AS signal level is measured for the designated number of samples at the time of track closing, and after A/D conversion at the ADSC, it is fine adjusted to become 64 LSB at the digital equalizer input stage.

All auto adjustments can be confirmed by displaying the adjustment result in the test mode.
The list of auto adjustment coefficient

State	Coefficient	DVD	CD
Power ON	VIN1 offset	06B7~08CD	-
	VIN2 offset	06B7~08CD	-
	VIN3 offset	06B7~08CD	-
	VIN4 offset	06B7~08CD	-
	VIN5 offset	06B7~08CD	06E1~08A3
	VIN6 offset	06B7~08CD	06E1~08A3
	VIN9 offset	-	06B7~08CD
	VIN10 offset	-	06B7~08CD
F close	FE MAX	0E48~36CD	13A5~469A
	FE MIN	C933~F1B8	B966~EC5B
	AS MAX	037B~1BD9	0978~3DDC
	FE normalization	01DD~05B4	016A~045B
F close (after TBAL)	TE MAX	1518~47E0	0337~381A
	TE MIN	B820~EAE8	C7E6~FCC9
	TE normalization	017C~0320	0230~08AF
T close	F gain	0100~0400	←
	T gain	0100~0400	←
	AS normalization	024C~125F	0168~0399

Note) Coefficient values are indicated in hexadecimals. In all cases, specifications at the production line are described. For discs, TDV-582 is used for DVD and TCD-792 is used for CD.

1.4 CIRC block (MN2DS0016AAUB : IC1501)

The CIRC block includes the digital signal processing function (EFM modulation and error correction) of CD-DA and CD-ROM and the digital servo processing function of the spindle motor.

1.5 DRC block (MN2DS0016AAUB : IC1501)

The digital read channel (DRC) is equipped with A/D converter, digital equalizer (DEQ), Adaptive filter, Viterbi detector, digital PLL circuit, RISC interface and periphery circuits for reading of signal on optical disc.

1.6 ATAPI I/F(MS5 base model)

[Outline]

The ATAPI interface is a ATAPI protocol control circuit compatible to ATA/ATAPI-5.

The register of the control section can be directly accessed from the system controller, and the data transfer is made via the SODC internal bus.

● ATAPI interface

* When viewed from I DVD-LSI.

Signal Name	Bits	I/O	Description
HDD[15:0]	16	I/O	ATAPI data input/output
NCS[1:0]	2	I	ATAPI host chip select
DA[2:0]	3	I	ATAPI host address
NIORD	1	I	ATAPI host data read out
NIOWR	1	I	ATAPI host data write
IORDY	1	O	ATAPI host ready output
DMARQ	1	O	DMA request to ATAPI host
NDMACK	1	I	DMA response from ATAPI host
INTRQ	1	O	Interrupt request to ATAPI host
NDASP	1	O	ATAPI drive information
NPDIAG	1	O	ATAPI slave · master diagnosis
NRESET	1	I	ATAPI host hard reset
MASTER	1	I	ATAPI slave · master selection

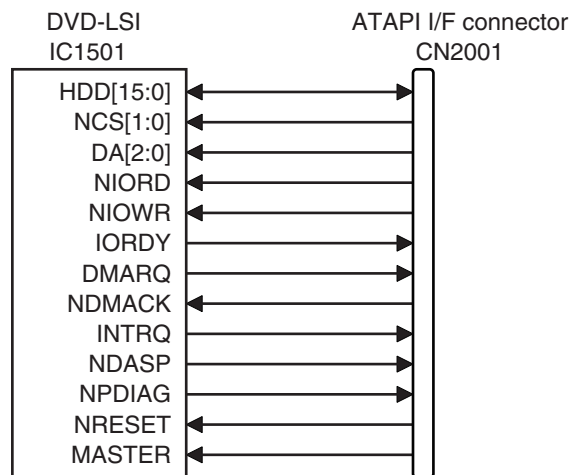
● ATAPI specifications

- Compatible transfer mode

PIO	mode 0 to 4
Single word DMA	mode 0 to 2
Multi word DMA	mode 0 to 2
Ultra DMA	mode 0 to 4

- 64 Byte data FIFO for host I/F is built-in.
- Auto capturing function of ATAPI command packet is built-in.
- Master · slave compatible

● ATAPI connection configuration



1.7 Power Supply Map(MS5 base model)

A

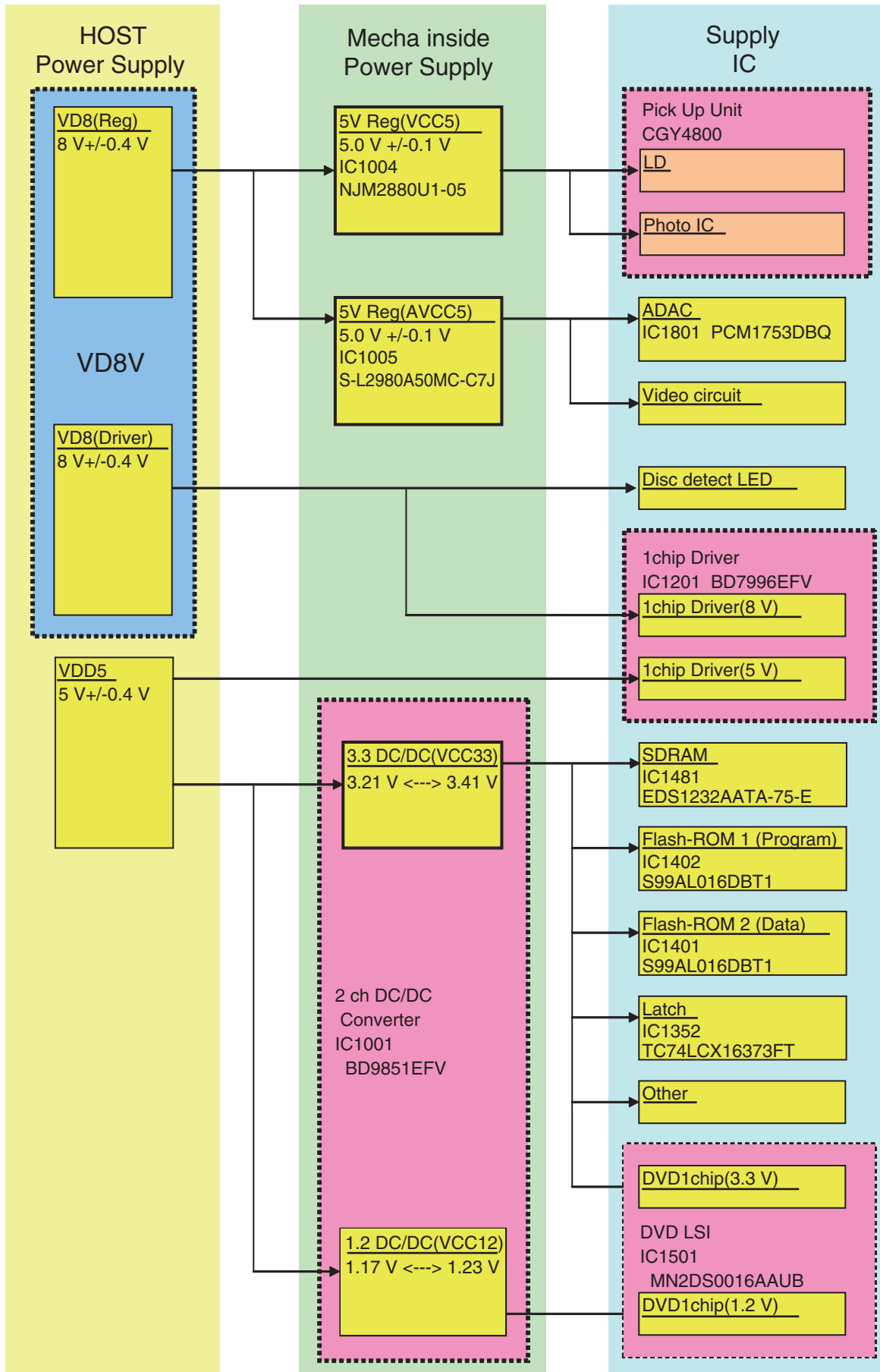
B

C

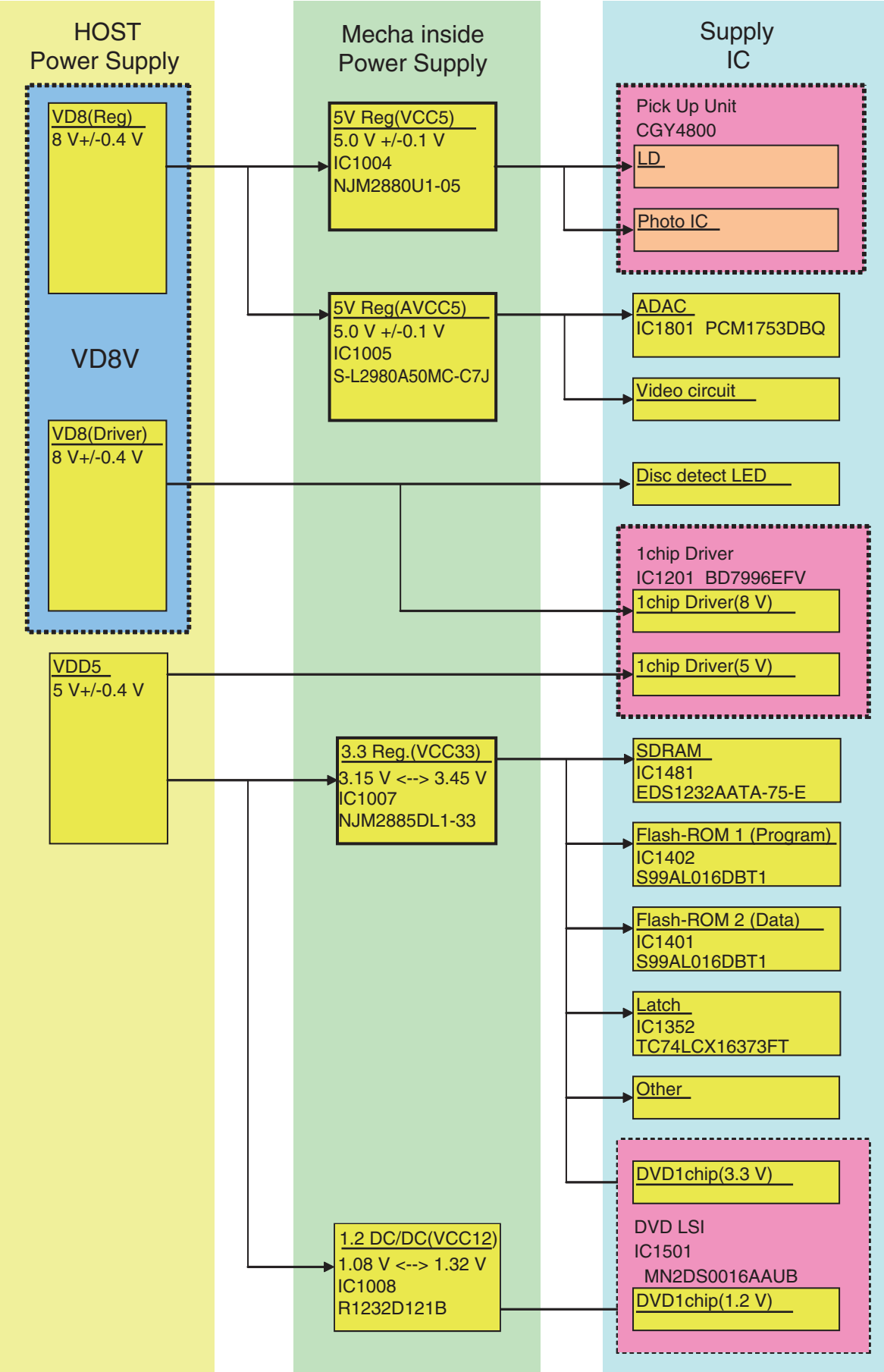
D

E

F



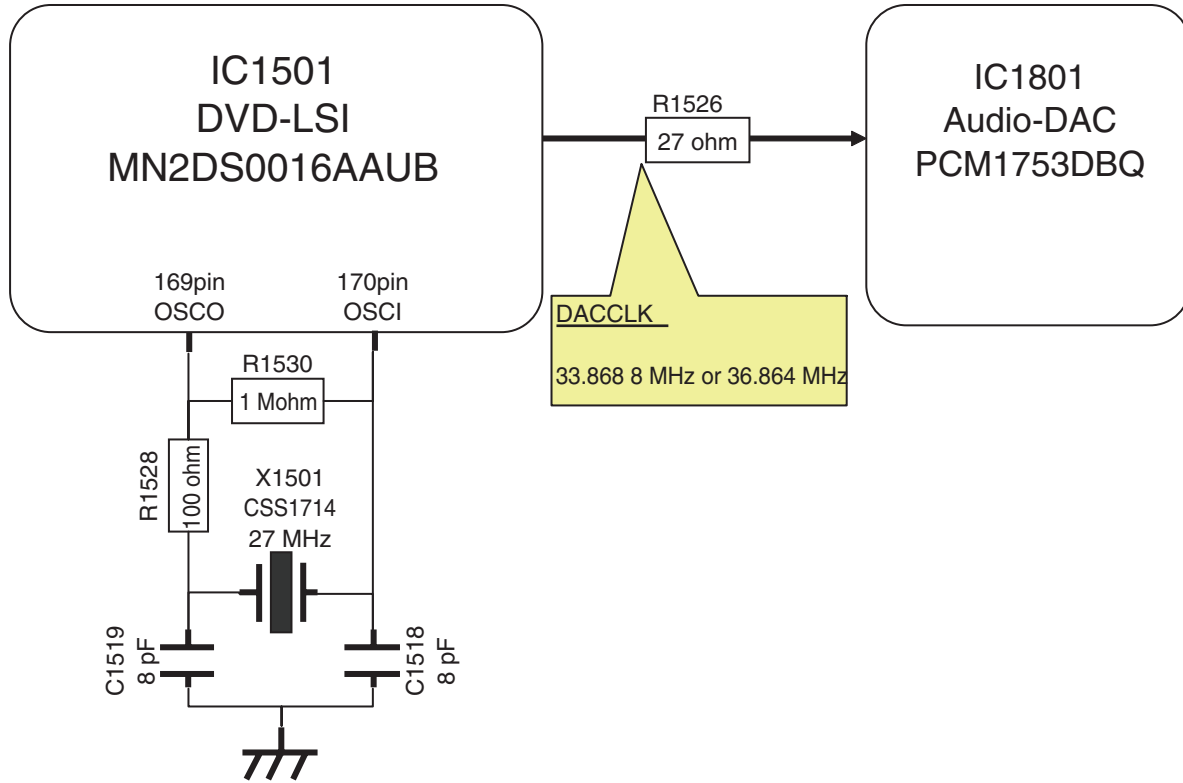
Power Supply Map(MS5AV code2 model)



1.8 Clock circuit

[Outline]

By connecting a 27 MHz crystal oscillator to DVD-LSI (IC1501), DACCLK for externally connected Audio-DAC is formed and supplied by the clock generator inside the DVD-LSI in addition to the clock used inside the LSI.



1.9 Audio circuit

[Outline]

① Analog audio signal

Serial 3 line digital output + DACCLK (audio clock) output from DVD-LSI (IC1501) are converted to analog audio signal by Audio-DAC (IC1801), and are output from HOST IF connector (CN1901). Furthermore, analog MUTE signal is also output from DVD-LSI (IC1501) via HOST IF connector (CN1901) simultaneously.

② Digital audio signal (IEC60958/IEC61937)

Digital audio signal (IEC60958/IEC61937), output from DVD-LSI (IC1501), is output via Multi-ch/Ripping IF connector (CN1851).

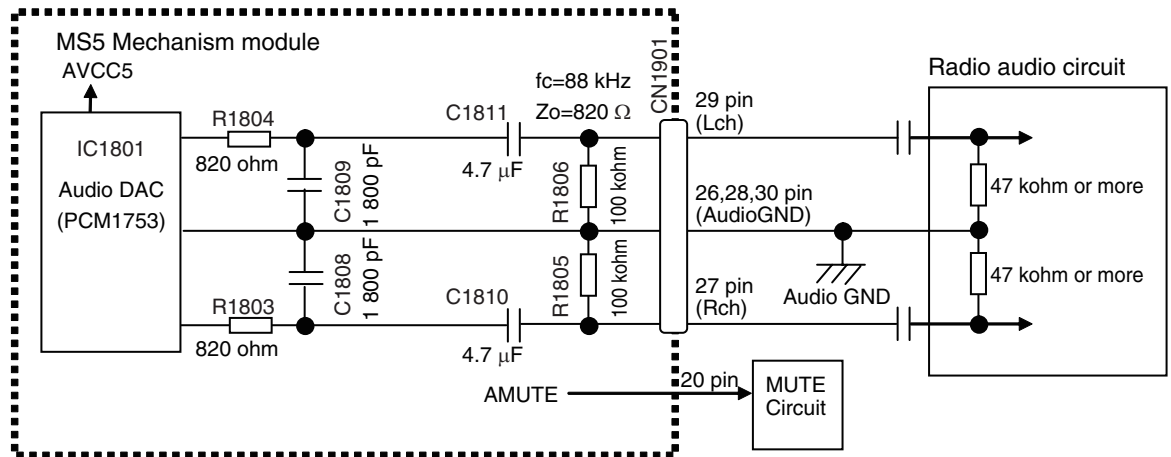
③ Digital multi-channel audio serial signal

Serial 6 line output from DVD-LSI (IC1501) is output via Multi-ch/Ripping IF connector (CN1851).

④ CD-DA ripping signal

Serial 3 line signal output + SUB-CODE signal, output from DVD-LSI (IC1501), are output in 4 times speed via Multi-ch/Ripping IF connector (CN1851).

[Analog audio signal]



[Digital audio signal]

A

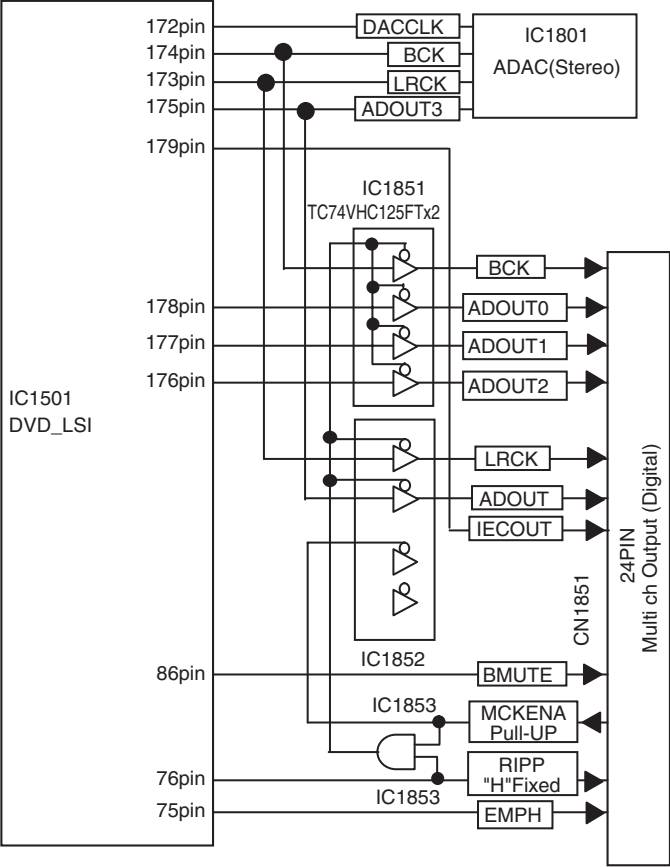
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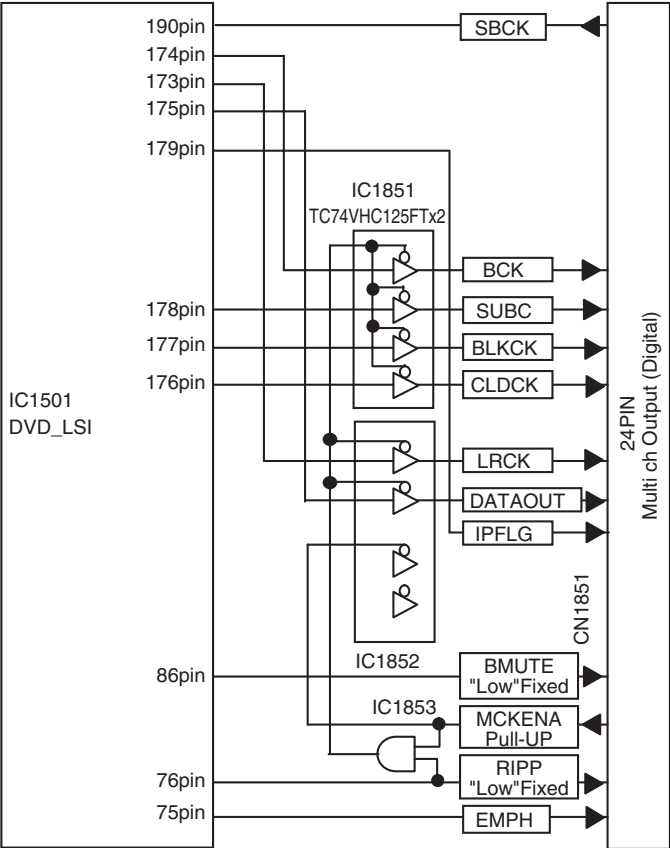
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[CD-DA 4 times speed ripping signal]

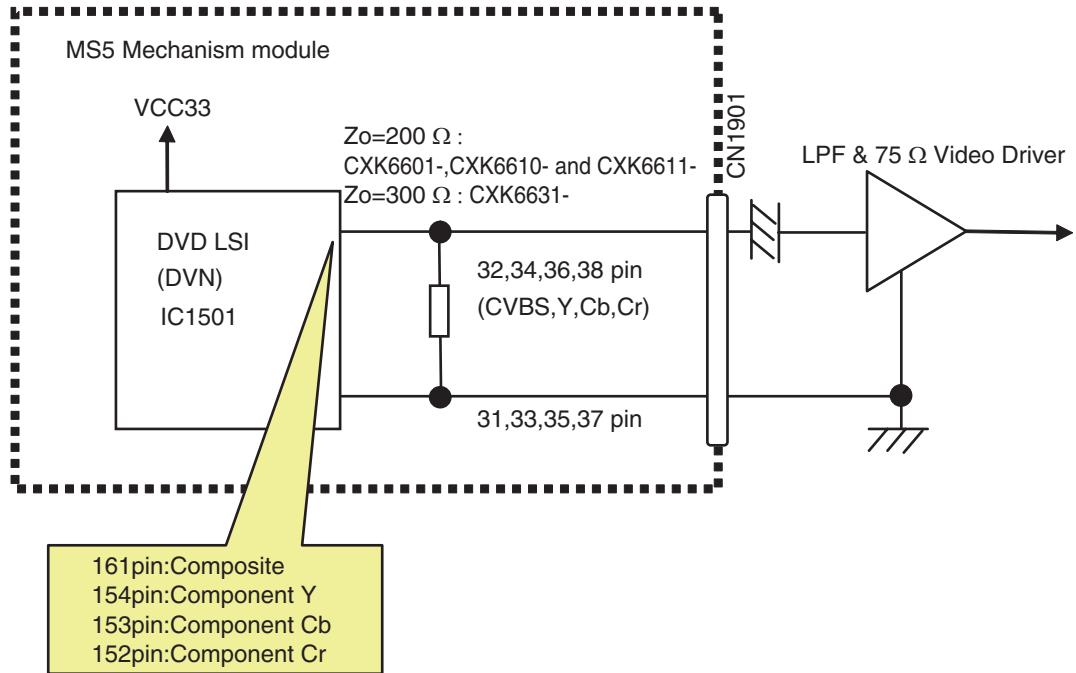


1.10 Video circuit

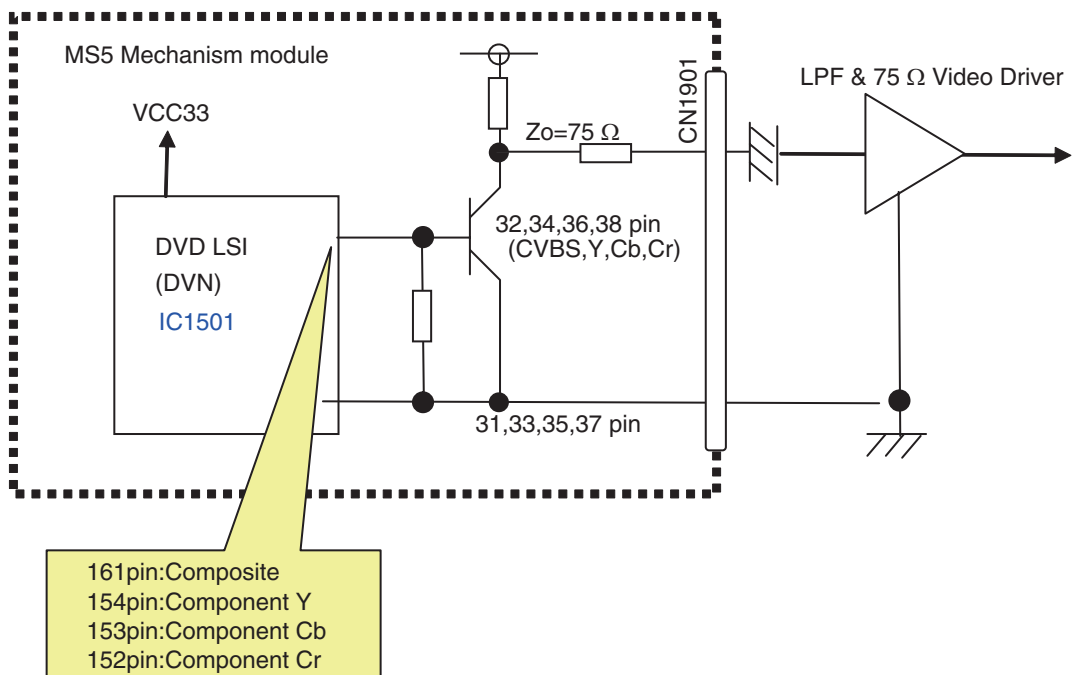
[Outline]

Composite signal and component signal are output from DVD-LSI (IC1501), and output from HOST IF (CN1901). Incidentally, the buffer circuit of MS5AVcode2 model -> CXK6631-,CXK6601-,CXK6610- and CXK6611- : No Mount, and the output signal from DVD-LSI is output as is. CXK6630- : The buffer circuit is installed.

CXK6631-,CXK6601-,CXK6610- and CXK6611-



CXK6630-



1.11 SDRAM I/F

[Outline]

It is a memory for realizing the AV decoding function of DVD-LSI (IC1501). It is used for various purposes such as buffering of stream data before decoding, working area for decoding, and storing of AV data or output data after decoding.

● SDRAM interface

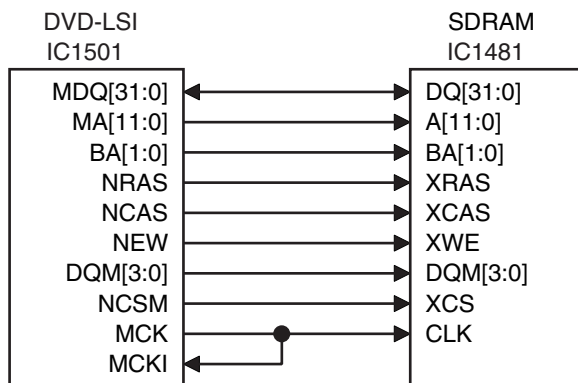
* When viewed from I DVD-LSI

Signal Name	Bits	I/O	Description
MDQ[31:0]	32	I/O	Data bus of external SDRAM
MA[11:0]	12	O	SDRAM address
BA[1:0]	2	O	SDRAM bank address
NRAS	1	O	RAS signal of SDRAM
NCAS	1	O	CAS signal of SDRAM
NEW	1	O	Write enable signal of SDRAM
NCS	1	O	Chip select signal of SDRAM
DQM[0]	1	O	Mask signal for writing lower level byte of the lower 2 bytes in SDRAM
DQM[1]	1	O	Mask signal for writing higher level byte of the lower 2 bytes in SDRAM
DQM[2]	1	O	Mask signal for writing lower level byte of the higher level 2 bytes in SDRAM
DQM[3]	1	O	Mask signal for writing higher level byte of the higher 2 bytes in SDRAM
MCK	1	O	Clock input to SDRAM
MCKI	1	I	Clock input for data input from SDRAM

● SDRAM specifications

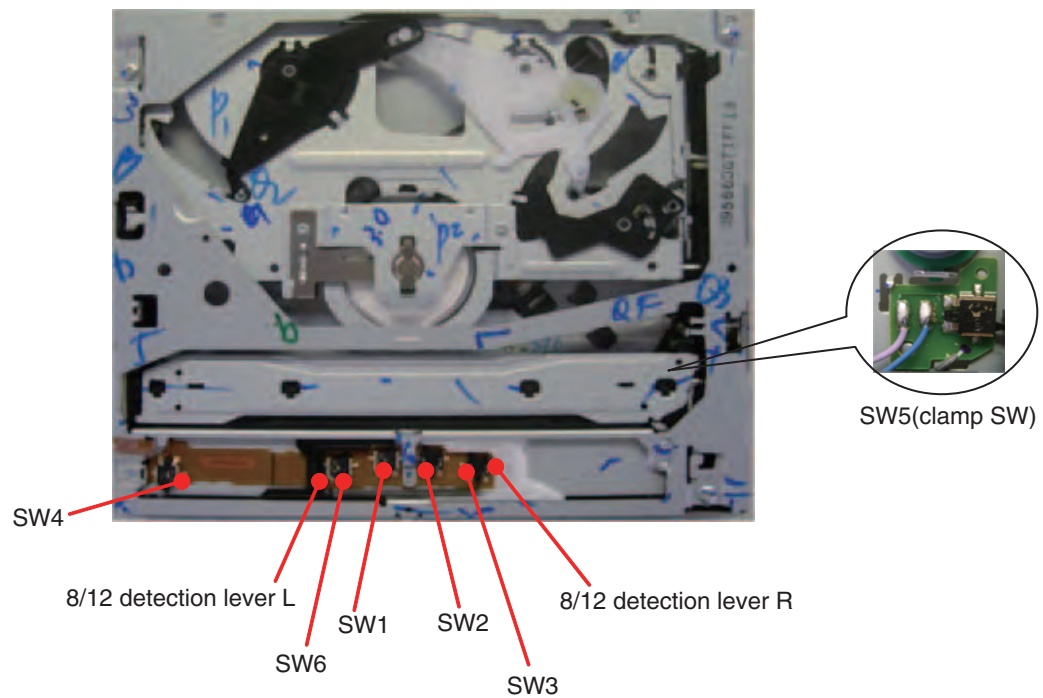
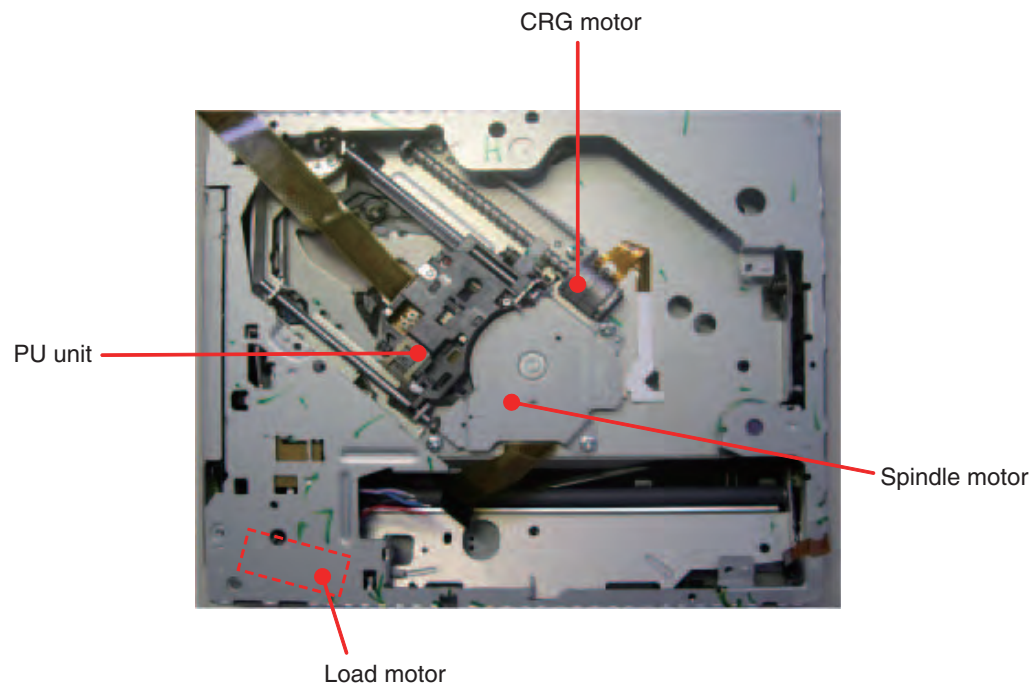
- Data bus width: 32 bit
- Operating frequency: 121.5 MHz
- CAS latency=3
- 8 word burst transfer
- Manual precharge
- CAS before RAS refresh (Auto refresh)

● SDRAM connection configuration



2. MECHANISM DESCRIPTIONS

Construction

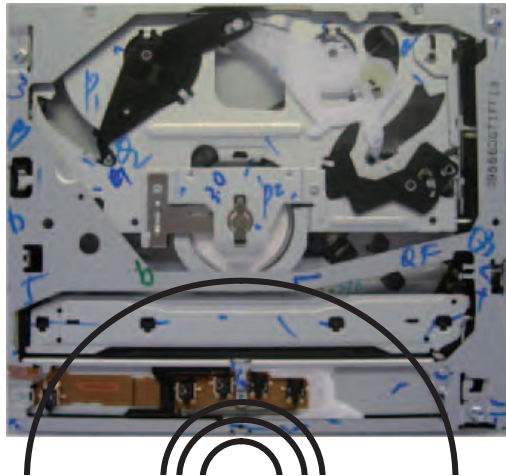


2.1 Disc loading operation

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1. When the disc is loaded, 8/12 detection lever R · L will slide, either SW1 or SW2 will be ON—OFF, and the loading motor will start.
2. In the case of a 12 cm disc, the disc is transported and SW3 becomes OFF and SW4 becomes ON, and the microcomputer judges as a 12 cm disc.

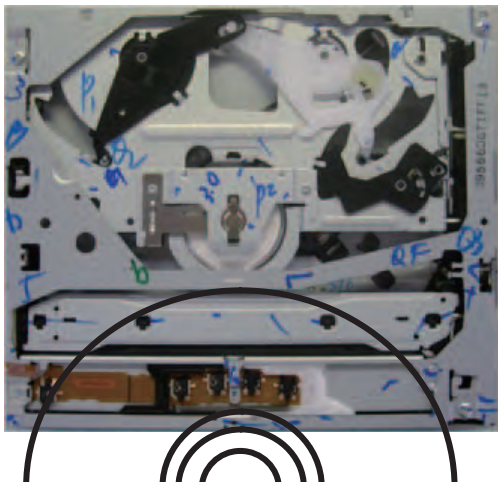
B



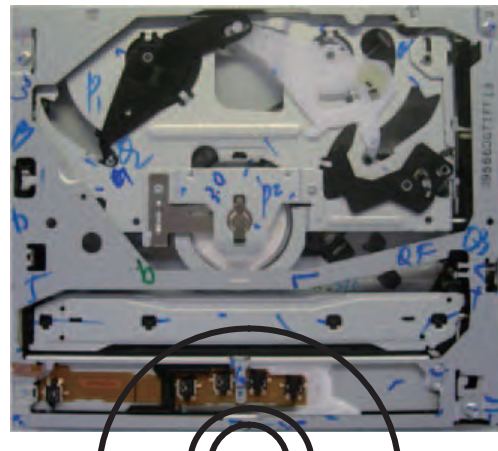
C

3. In the case of an 8 cm disc, even if the disc is transported, the SW3 OFF and SW4 ON state will not be realized, and the clamping motion will be taken. The microcomputer will judge as an 8 cm disc.

D



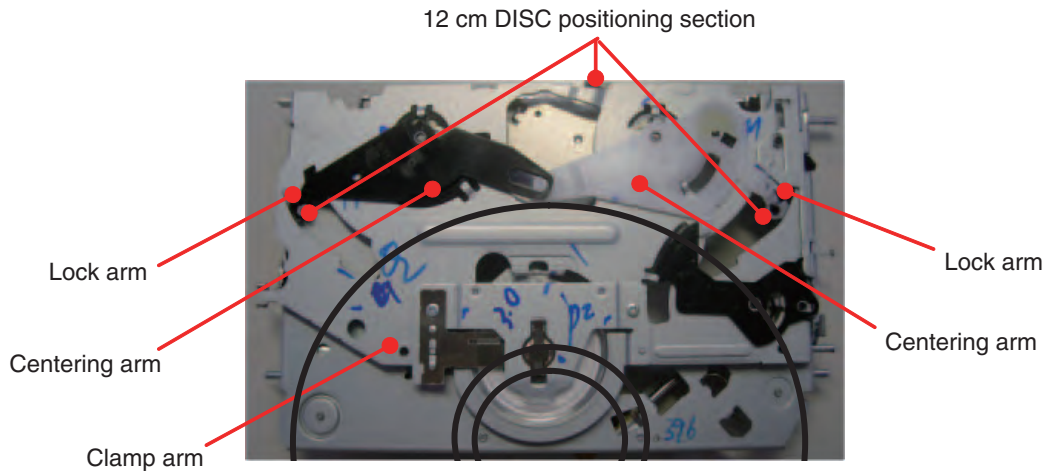
E



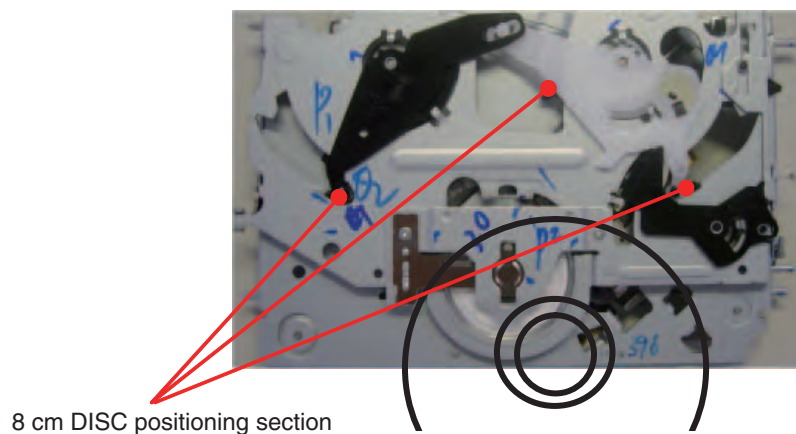
F

2.2 Disc centering mechanism

1. In the case of a 12 cm disc, the centering arm R · L will open by the disc being transported and both the lock arm R · L being pushed. Furthermore, the disc will be centered by the stopper of either the clamp arm or the centering arm R and stopped, and the clamping motion will be taken.



2. In the case of an 8 cm disc, if a disc is inserted being shifted to the left or the right, the disc will first hit the lock arm R or L. As the lock arm R and L are coupled via the centering arm R and L and the lock will not be released unless both are pushed, the disc will be restricted by the fixed lock arm and centered. The disc pushes out the detection arm while being centered, the disc stops at a position where the motion of the detection arm is completed, and the clamping motion will be taken.



2.3 Clamping operation

A

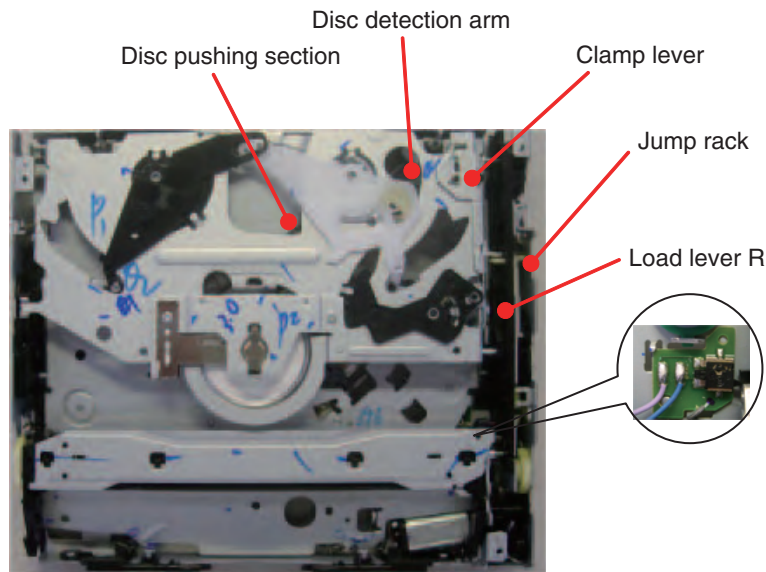
1. When a disc is loaded, the clamp lever will be driven by the disc detection arm being pushed by an 8 cm or a 12 cm disc. By engagement of the jump rack and the lever driving gear, the disc clamping motion will start.

■

B

■

C



■

D

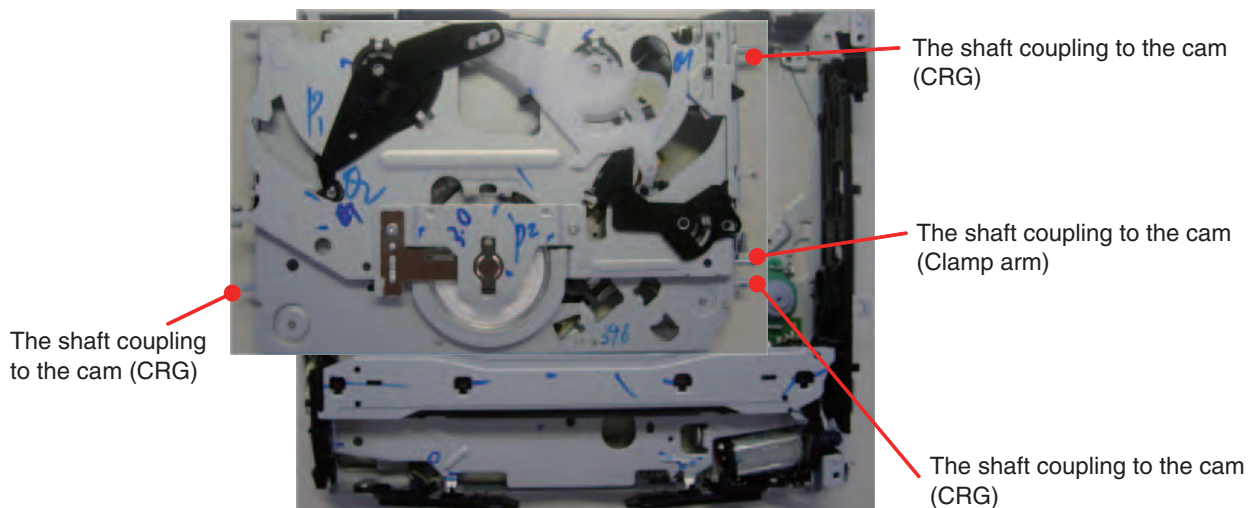
2. When the load lever R pushed by the jump rack moves to the front side of the mechanism, the roller shaft restricted by the cam of the load lever R will move downward.

And the roller shaft is also restricted by the cam of the cam ring.

The power of the roller shaft is transferred to the load lever L via the cam ring, and the load lever L will move to the front side of the mechanism.

The coupling of the load cam attached to each load lever, three shafts of the CRG chassis unit and the shaft of the clamp arm will be released, and the clamping motion will be completed at a position where the switch pushing section of the load lever R turns the clamp SW to ON.

E



F

2.4 Ejection operation

1. The loading motor reverse rotates, and the ejection motion will start.
2. In the case of a 12 cm disc, the ejection will be completed by OFF→ON→OFF of SW4.
3. In the case of an 8 cm disc, the ejection will be completed when both SW3 and SW6 become ON after either SW3 or SW6 is ON→OFF.

3. DISASSEMBLY

● How to hold the mechanism section (Fig 1)

1. Hold the main frame and the top frame.
2. As the mechanical strength of the front part of the top frame is not strong, do not hold this part.
3. Do not touch the switches provided on the top face of the mechanism section.
4. Be careful not to pull the flexible PCB on the side face.

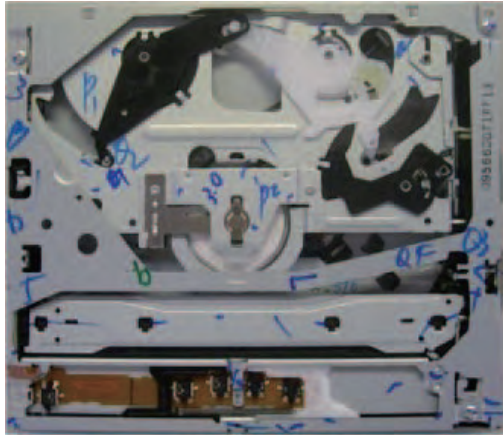


Fig 1

Do not touch this part. Do not touch this part. Do not touch this part.

● How to remove the module PCB (Fig 2, Fig 3)

1. Put the mechanism section in locked state (disc load standby position).
2. Hold the mechanism module with its top face down.
3. Make the lands at 2 locations on the pick up flexible PCB short.
4. Disconnect the connectors of the pick up flexible PCB and the SPDL flexible PCB.
(Be sure to disconnect the connectors as the flexible PCB will be damaged if the PCB is removed without removing the flexible PCB.)
5. Remove the solder joint of the lead wire of the load motor and the clamp SW.
6. Remove the two screws, and then remove the module PCB.
(Lift up point A slightly and remove it toward B direction. Be careful as the point C is connected with a flexible PCB.)
7. Disconnect the connector of the 8-12 detection flexible PCB from the PCB.

Fig 2

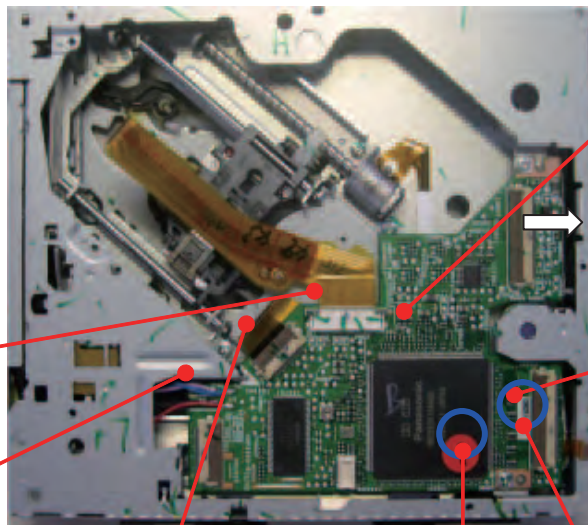
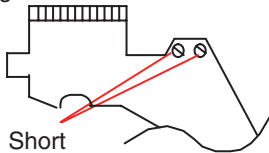


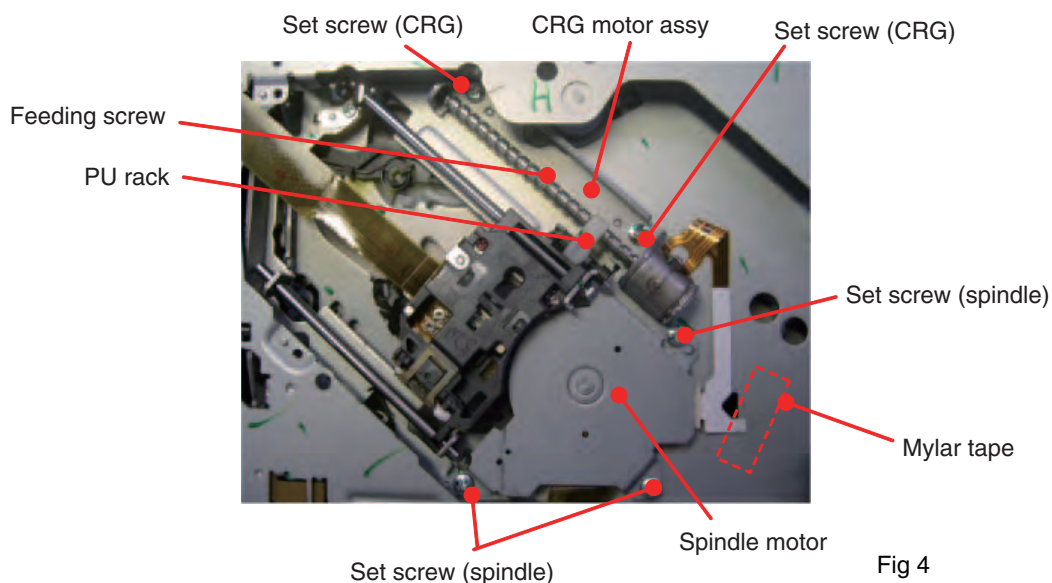
Fig 3

● How to remove the spindle motor (Fig 4)

1. Remove the module PCB according to the instructions in "How to remove the module PCB".
2. Remove the flexible PCB of the CRG motor from the connector of the spindle motor.
3. Remove the three motor mounting screws. When mounting or removing the motor, be careful not to deform the CRG chassis.

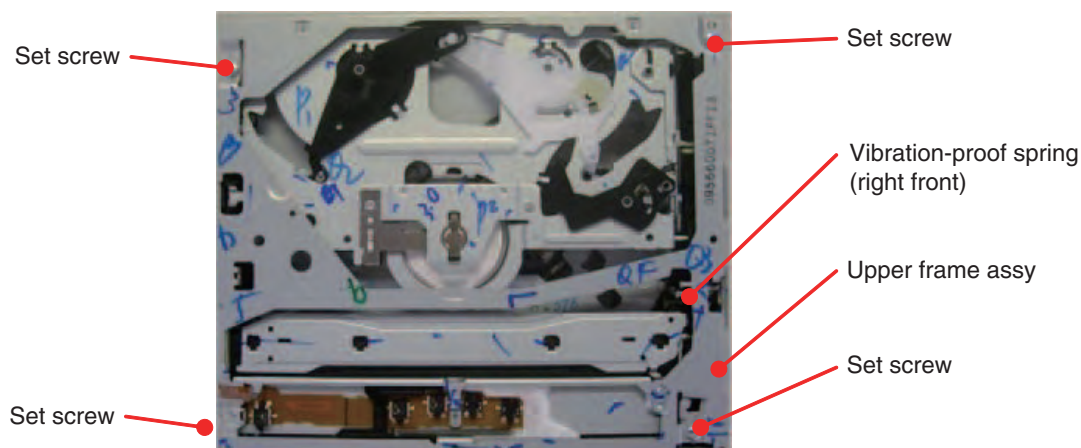
● How to remove the CRG motor assy (Fig 4)

1. Remove the module PCB according to the instructions in "How to remove the module PCB".
2. Remove the Mylar tape.
3. Remove the flexible PCB of the CRG motor from the connector of the spindle motor.
4. Remove the two screws, and then remove the CRG motor assy.



● How to remove the upper frame assy (Fig 5)

1. Remove the module PCB according to the instructions in "How to remove the module PCB".
2. Remove the vibration-proof spring (right front).
3. Remove the four screws, and then remove the upper frame assy.



● How to remove the PU unit (Fig 6)

1. Remove the module PCB according to the instructions in "How to remove the module PCB".
2. Hang the main shaft holding spring to the CRG chassis temporary hanger.
3. Remove the CRG motor assy according to the instructions in "How to remove the CRG motor assy".
4. Remove the holding plate spring of the main shaft.
5. While lifting up the tip of the pick up rack, slide the main shaft, and remove the PU unit.

(Note) When mounting the PU unit again, make sure to do the adjustments of the devices mounted thereon according to the descriptions of the service manual. Furthermore, make sure to hang the main shaft holding spring permanently.

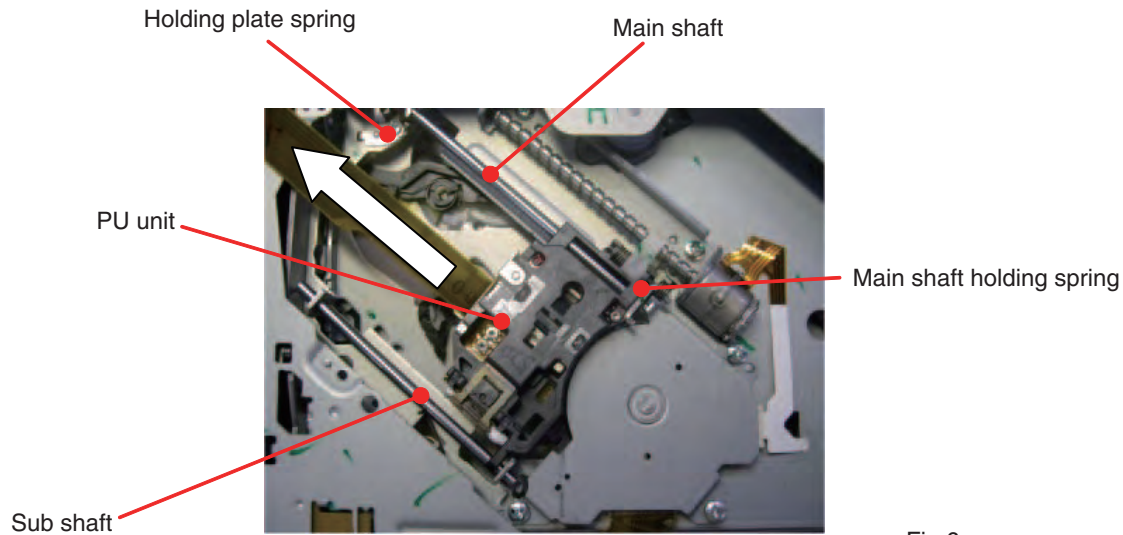
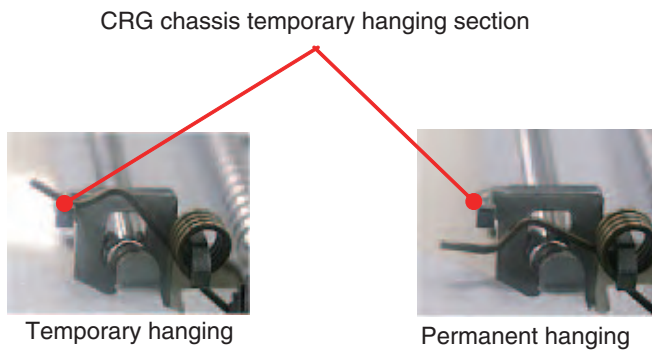


Fig 6



● How to remove the load gear assy (Fig 7)

1. Remove the module PCB according to the instructions in "How to remove the module PCB".
2. Remove the upper frame assy according to the instructions in "How to remove the upper frame assy".
3. Remove the two screws, and then remove the load gear assy.
4. Remove the jump rack and the rack attached spring.

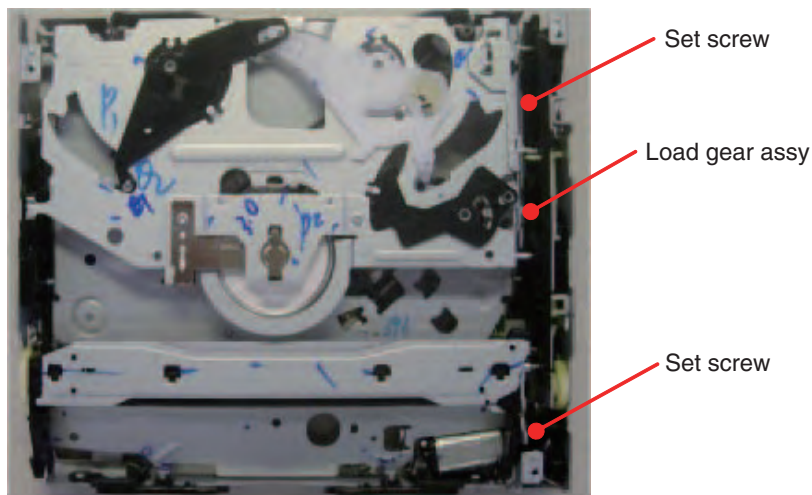


Fig 7

● How to make the empty clamp state (motor driven empty clamp) (Fig 8)

1. While driving the motor in the clamping direction, pull the clamp lever toward you.
2. Even if the clamp lever has pushed the jump rack putting it in the clamped state, continue pulling the clamp lever toward you lightly until it is stopped. It should be noted that the ejection will not work if the bar ring of the clamp lever is positioned at the center of the hook shape. (Fig 9)
3. When the clamping motion is finished, stop the motion before the convex shape of the jump rack touches the load lever R. (Fig 10)

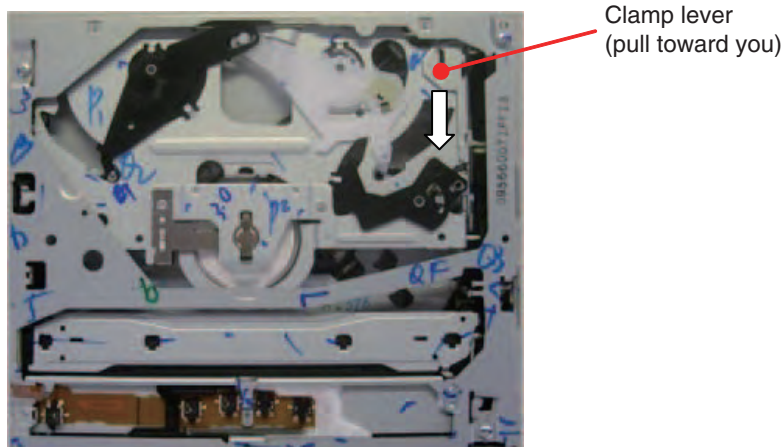


Fig 8

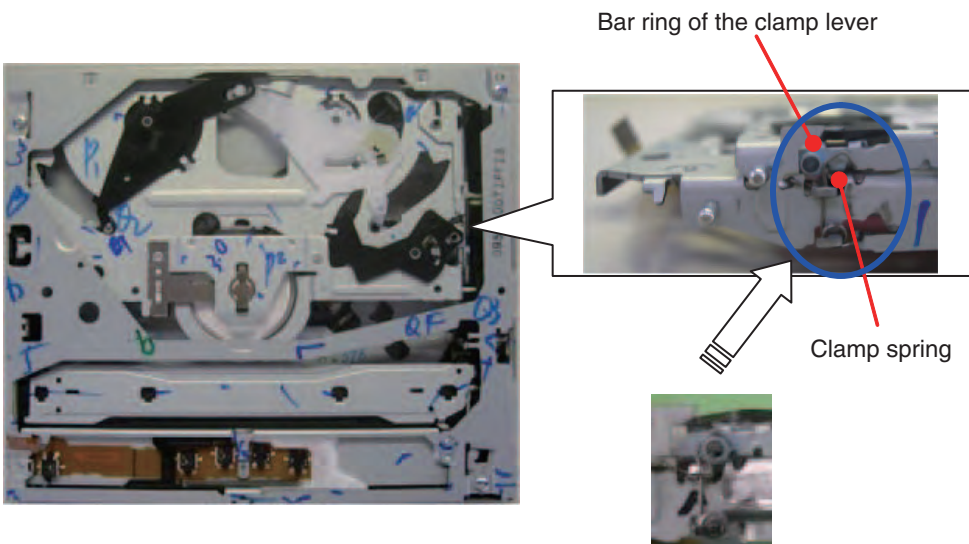


Fig 9

Make sure that the bar ring of the clamp lever does not get inside the clamp spring.

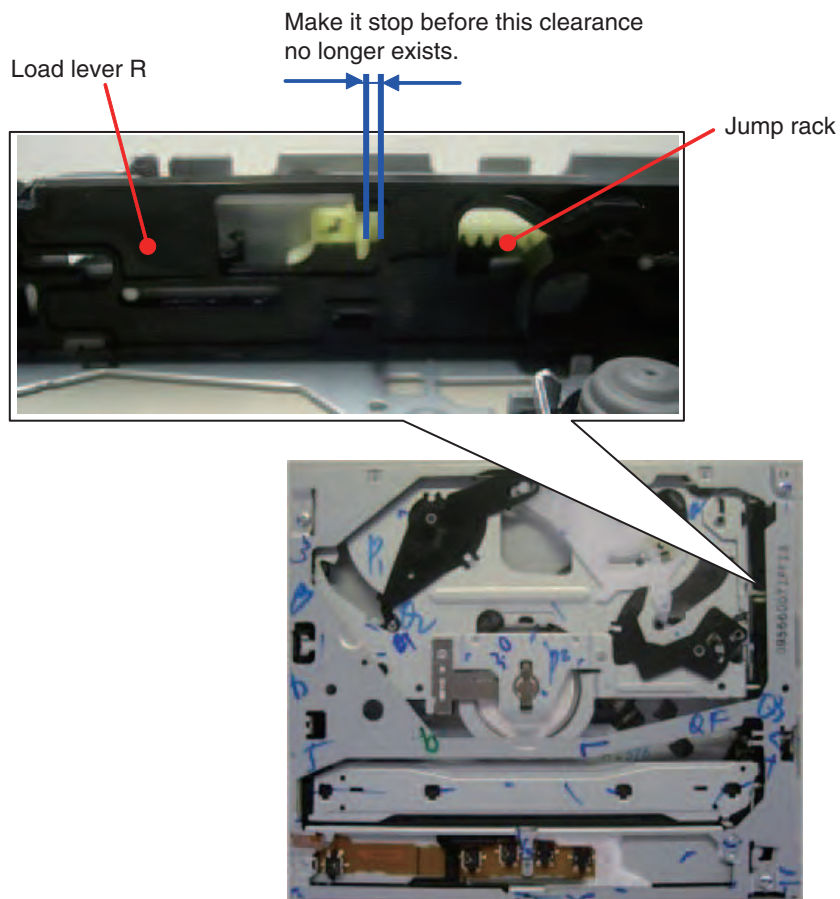


Fig 10

● How to make the empty clamp state (manual empty clamp) (Fig 11)

1. Remove the module PCB according to the instructions in "How to remove the module PCB".
2. Remove the upper frame assy according to the instructions in "How to remove the upper frame assy".
3. Remove the load gear assy according to the description in "How to remove the load gear assy".
4. While pulling the clamp lever toward you, pull the slip stopper of the load lever R, and make it clamp.

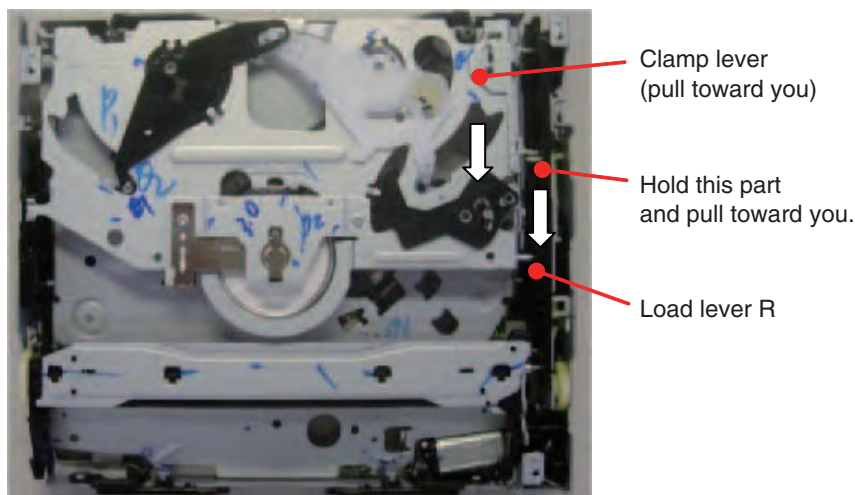


Fig 11

● How to remove the load motor assy (Fig 12)

1. Remove the module PCB according to the instructions in "How to remove the module PCB".
2. Remove the upper frame assy according to the instructions in "How to remove the upper frame assy".
3. Remove the load gear assy according to the description in "How to remove the load gear assy".
4. Make the empty clamp state according to the description in "How to make the empty clamp state (manual empty clamp)".
5. Remove the screw and then pull out the load motor assy from the side.

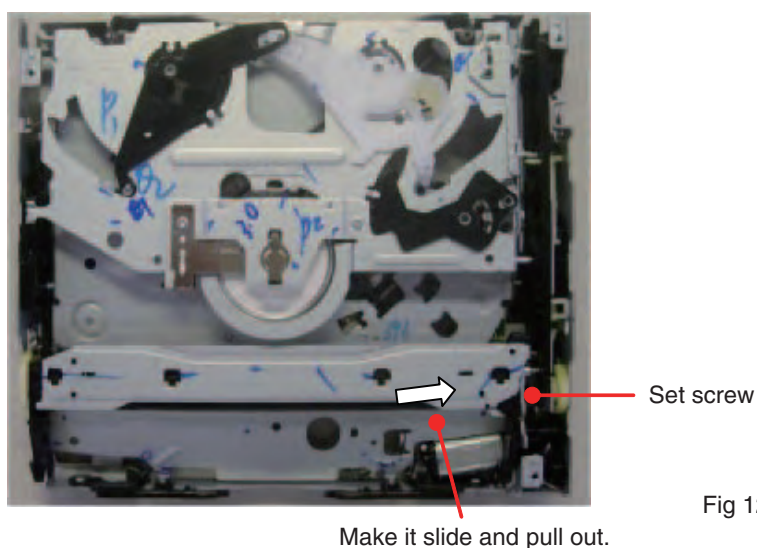


Fig 12

● How to remove the CRG assy (Fig 13)

1. Make the empty clamp state according to the description in "How to make the empty clamp state (motor driven empty clamp)".
2. Remove the module PCB according to the instructions in "How to remove the module PCB".
3. Remove the upper frame assy according to the instructions in "How to remove the upper frame assy".
4. Remove the three vibration-proof springs.
5. Remove the CRG assy by lifting it up until the shaft slips out of the damper.

● How to remove the disc guide assy (Fig 13)

1. Make the empty clamp state according to the description in "How to make the empty clamp state (motor driven empty clamp)".
2. Remove the module PCB according to the instructions in "How to remove the module PCB".
3. Remove the upper frame ASSY according to the instructions in "How to remove the upper frame assy".
4. Remove the two screws, and then remove the disc guide by lifting it up and placing it at 45° position and further sliding it to the left.

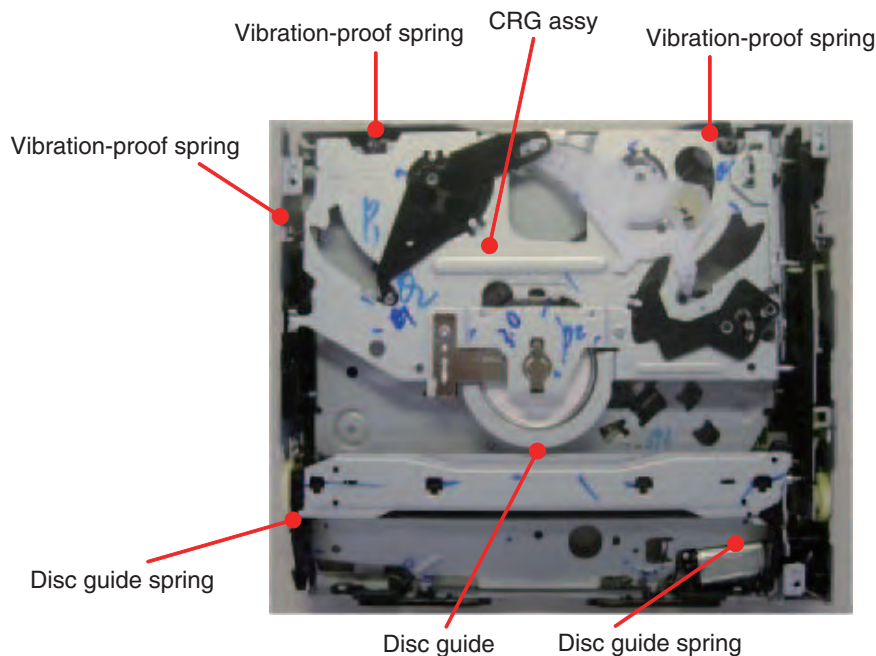


Fig 13

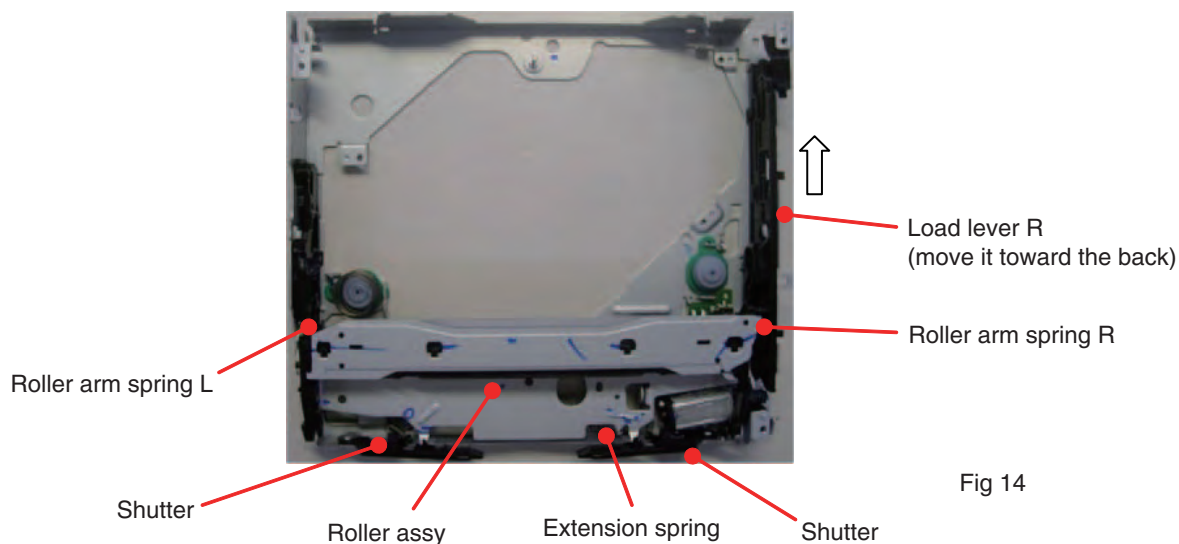
● How to remove the roller assy (Fig 14)

1. Remove the module PCB according to the instructions in "How to remove the module PCB".
2. Remove the upper frame assy according to the instructions in "How to remove the upper frame assy".
3. Remove the extension spring.
4. Remove the load gear assy according to the description in "How to remove the load gear assy".
5. Make the empty clamp state according to the description in "How to make the empty clamp state (manual empty clamp)".
6. Remove the disc guide assy according to the description in "How to remove the disc guide assy".
7. Remove the CRG assy according to the description 4 and 5 in "How to remove the CRG assy".
8. Push the slip stopper of load lever R toward the back, and move it until the end.
9. Remove the load motor assy according to the description in "How to remove the load motor assy".
10. Remove the roller arm spring R • L.

As for the roller arm spring R, remove only the tip hanging on the load lever R.

11. Remove the extension spring, and then remove the roller assy by lifting it up to the highest position and sliding it toward the right.

(Note) Be careful not to deform the shutter when removing the roller assy.



● How to remove the damper (Fig 15)

1. Make the empty clamp state according to the description in “How to make the empty clamp state (manual empty clamp)”.
2. Remove the module PCB according to the instructions in “How to remove the module PCB”.
3. Remove the upper frame assy according to the instructions in “How to remove the upper frame assy”.
4. Remove the three vibration-proof springs.
5. Remove the CRG assy according to the description 4 and 5 in “How to remove the CRG assy”.
- 6.1 Release the clinch by holding the A section of the damper attached to the main frame using a pair of pliers and lifting it up toward B direction.
(As there will be a gap made at section C, remove the damper.)
- 6.2 Insert a screwdriver into section D, release the clinch by lifting up a metal plate on the other side, and remove the damper.
- 7.1 Remove the CRG motor assy according to the description 3 and 4 in “How to remove the CRG motor assy”.
- 7.2 Remove the damper.

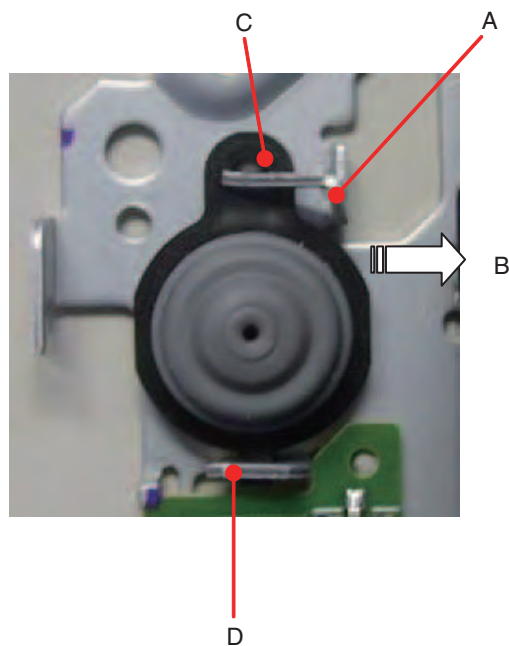
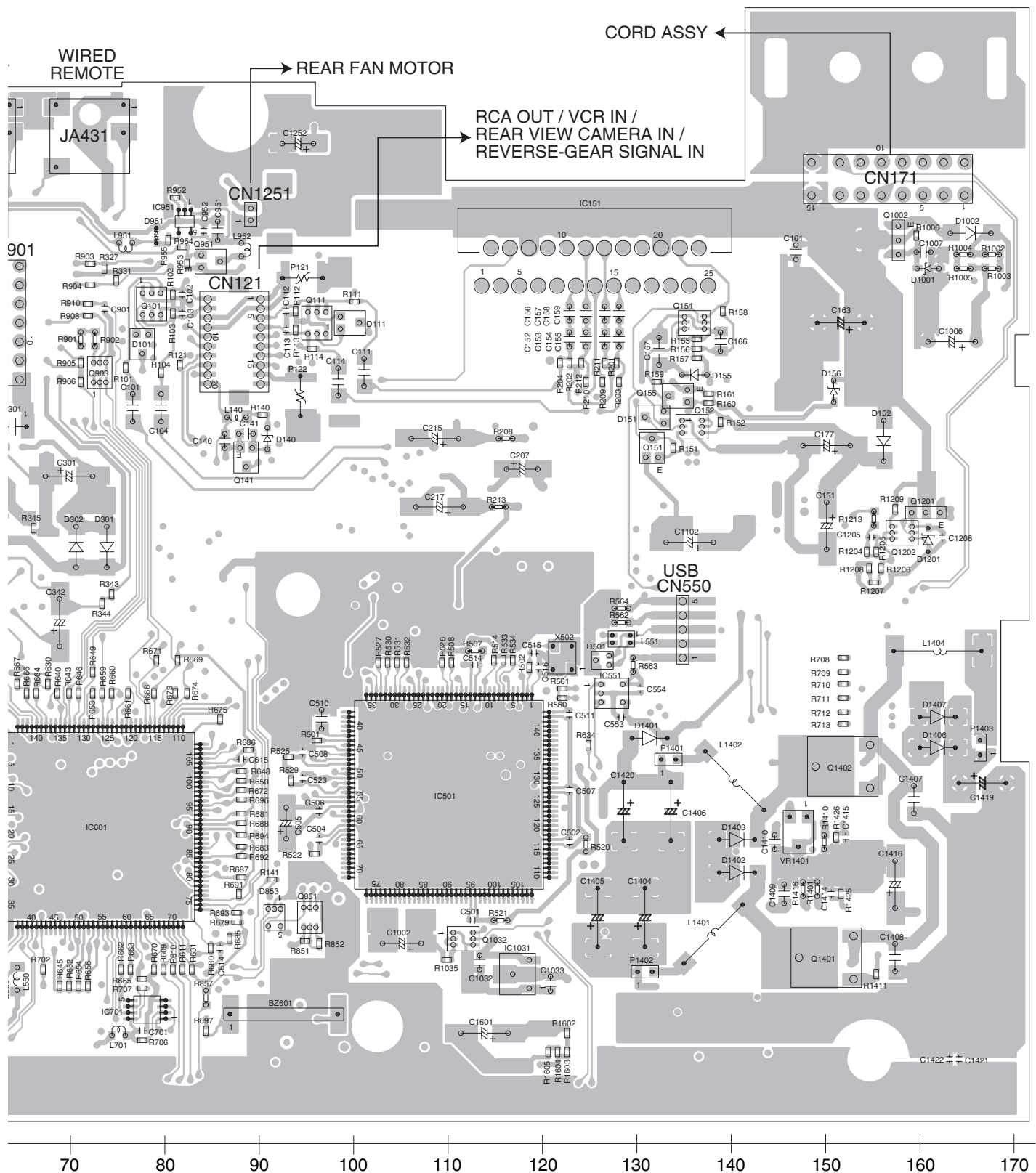


Fig 15

SIDE A

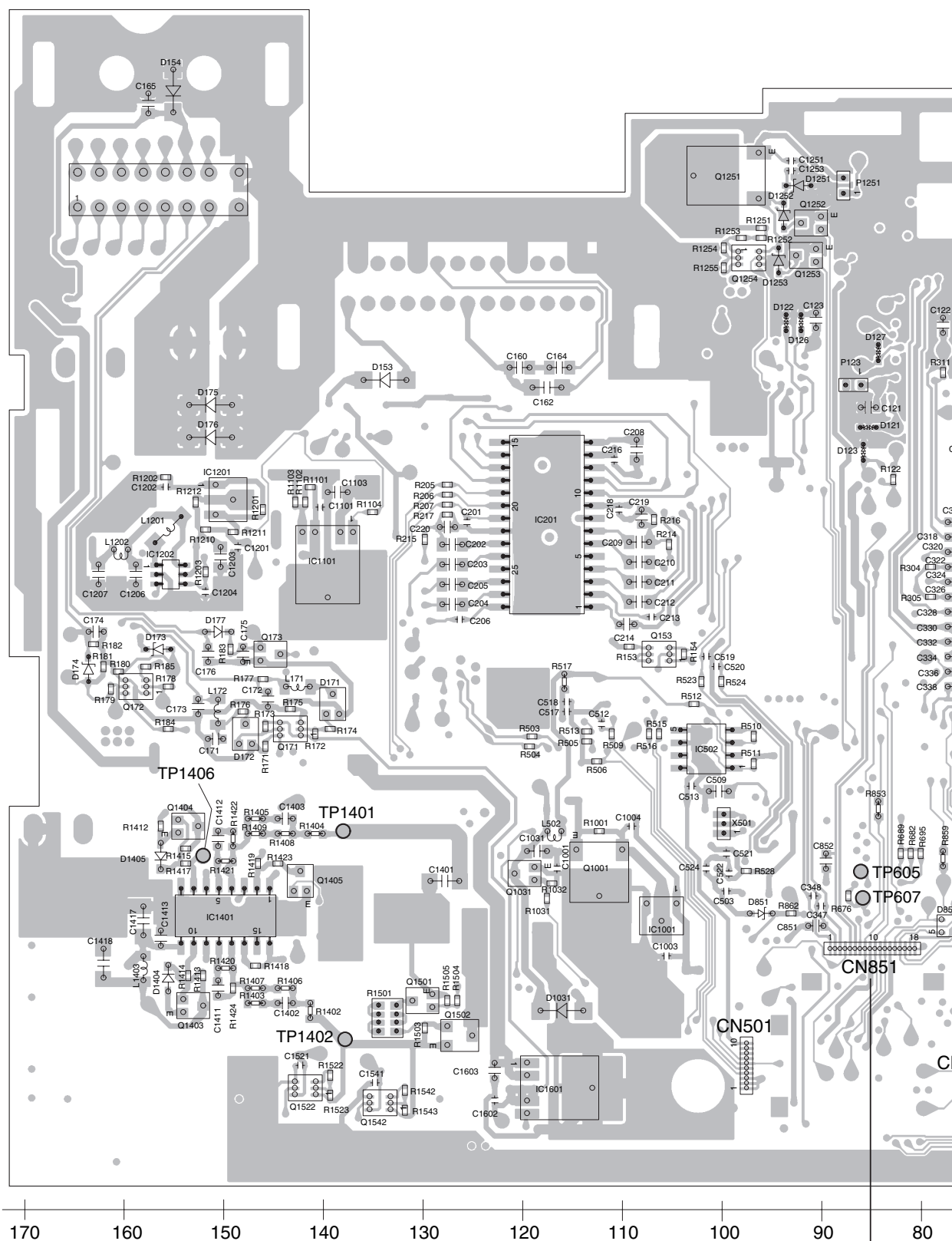


FRONT

AVH-P5050DVD/XN/RC

A

A DVD AMP UNIT



F

A

A

0

C

C

E

F



8

11.2 iPod CONNECTOR UNIT

B iPod CONNECTOR UNIT

SIDE A

B iPod CONNECTOR UNIT

SIDE B

A

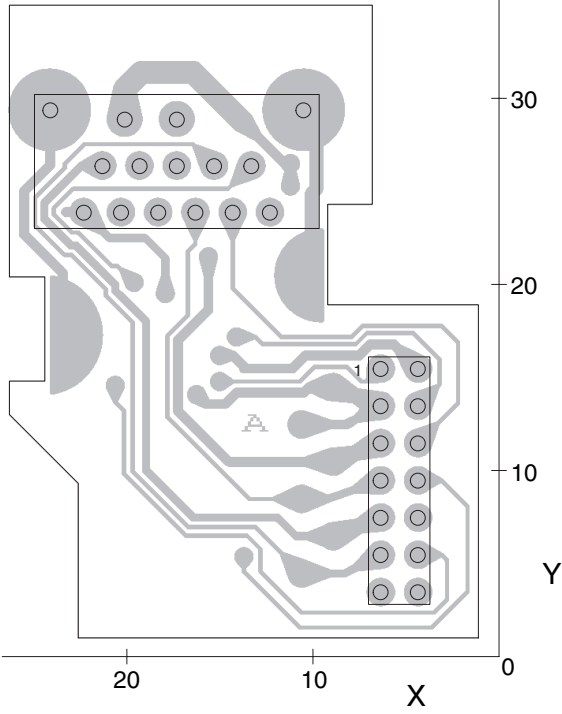
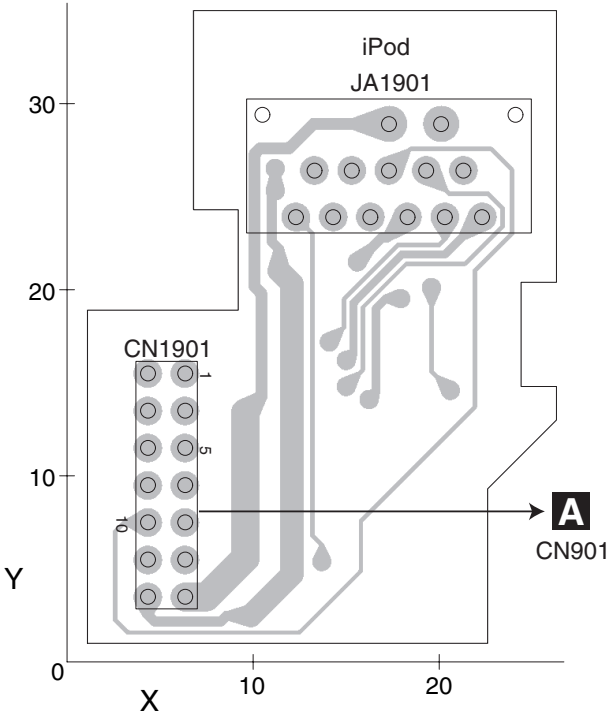
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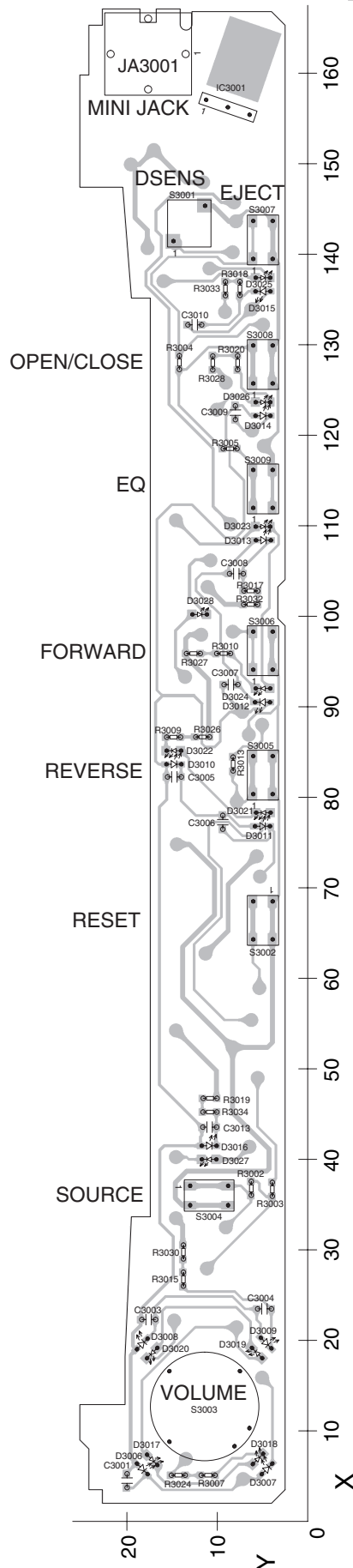
F



11.3 KEYBOARD UNIT

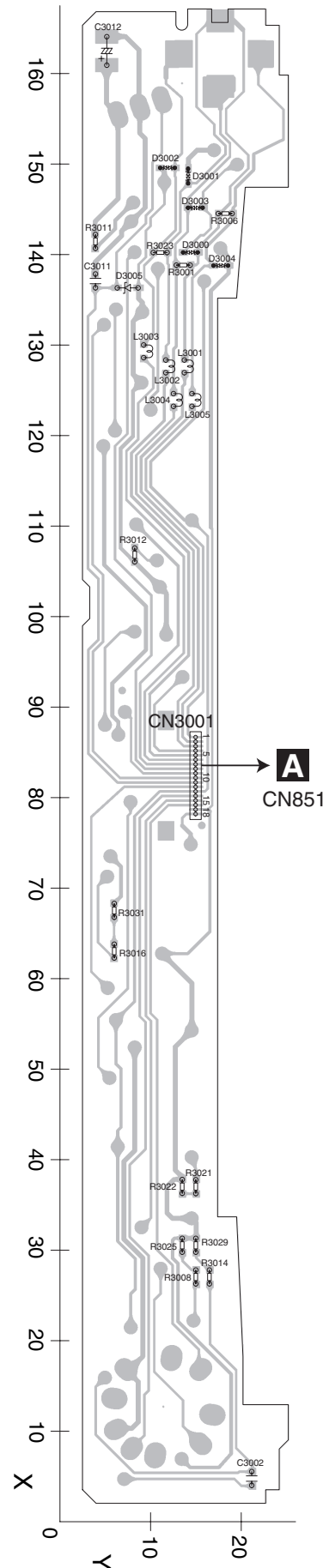
C KEYBOARD UNIT

SIDE A



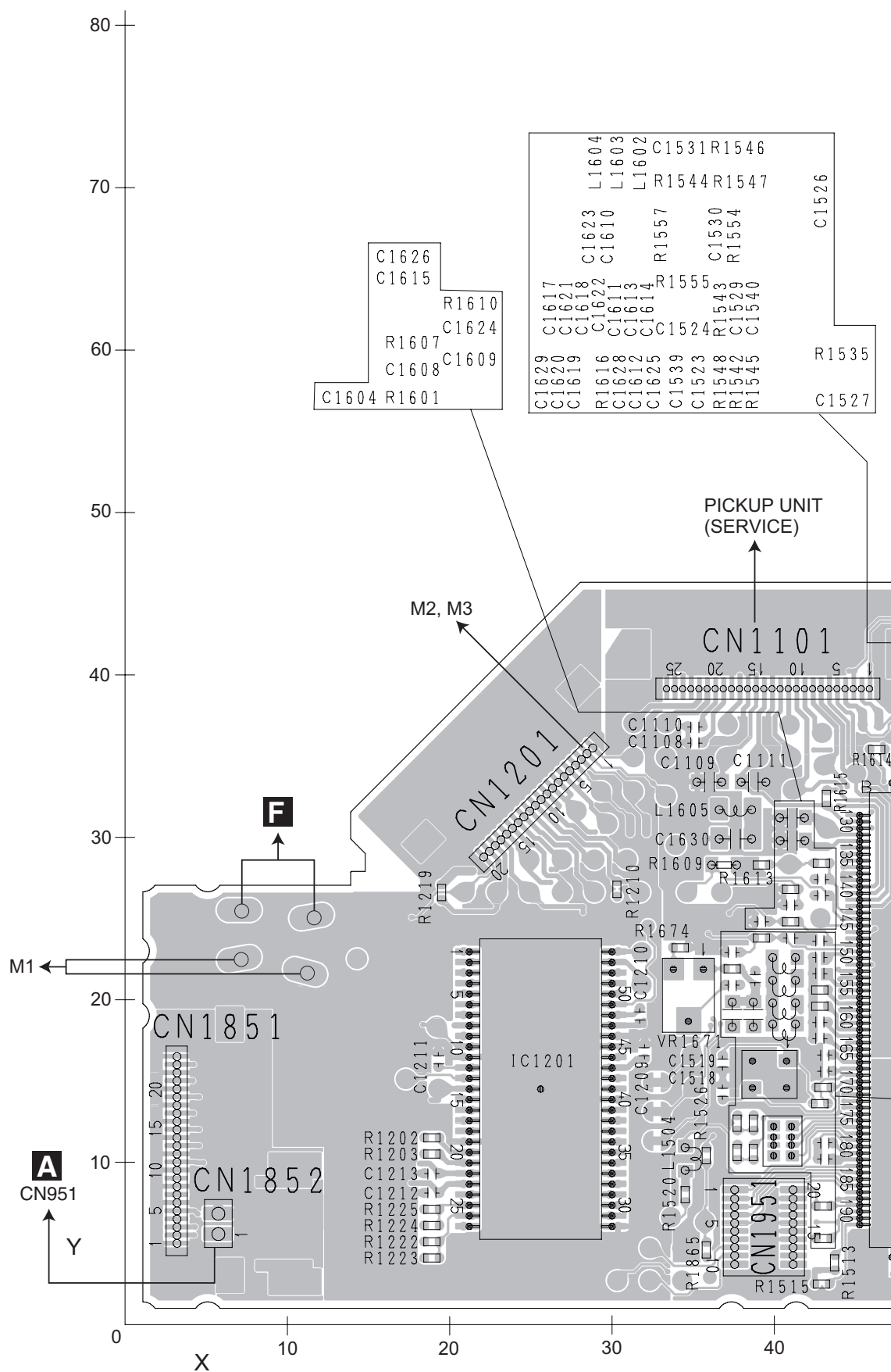
C KEYBOARD UNIT

SIDE B



11.4 DVD CORE UNIT

D DVD CORE UNIT



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D DVD CORE UNIT

A

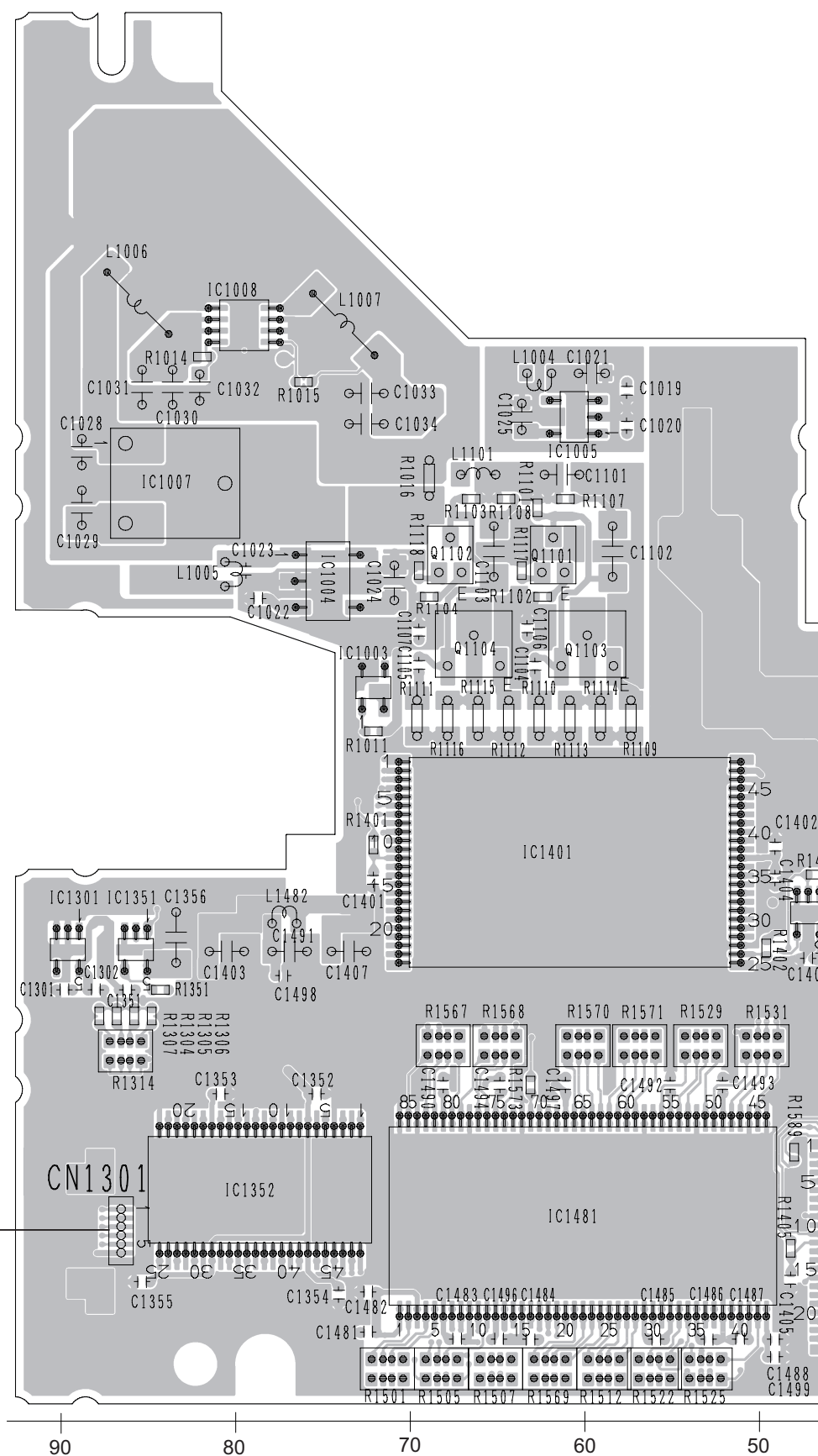
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SIDE B

A

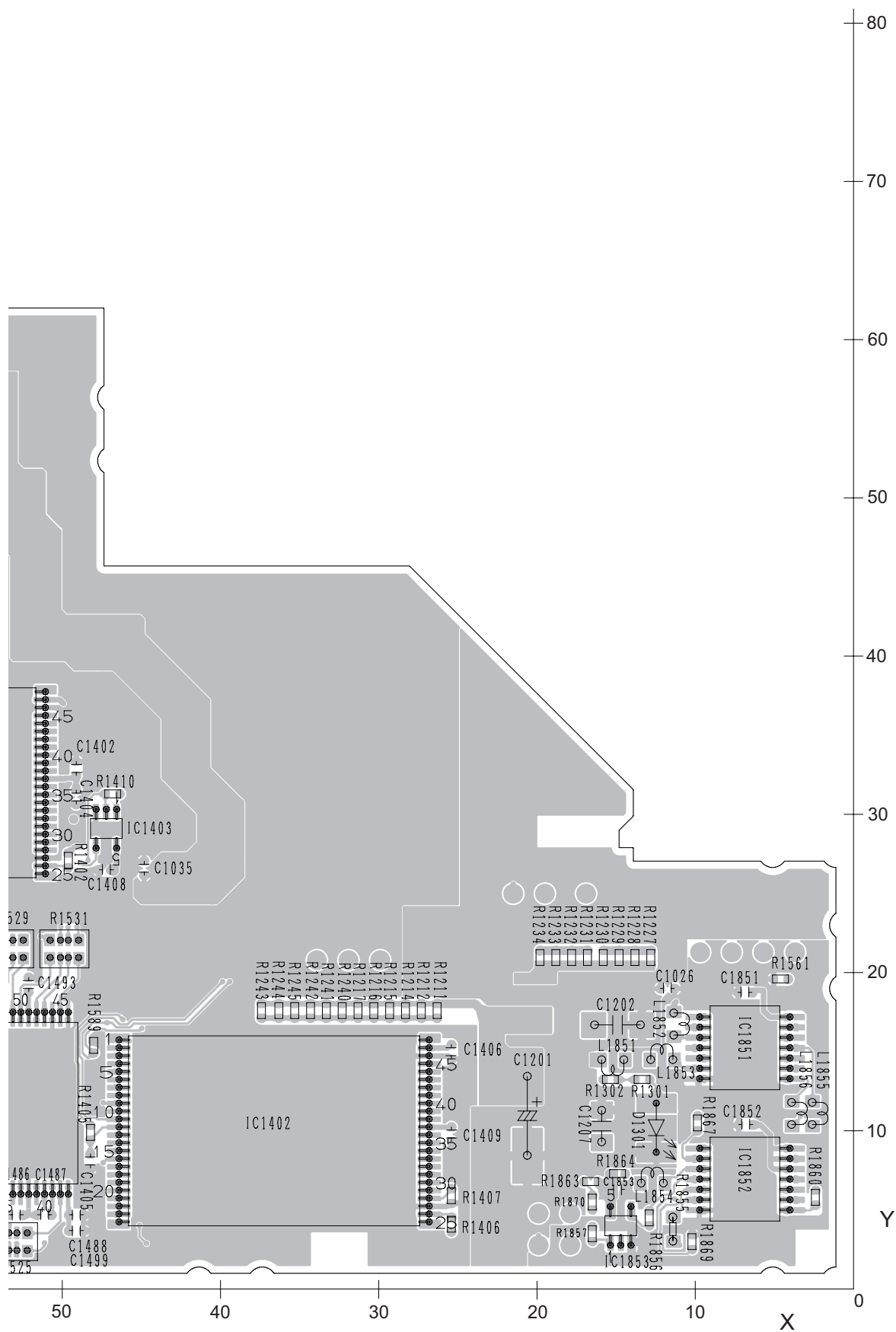
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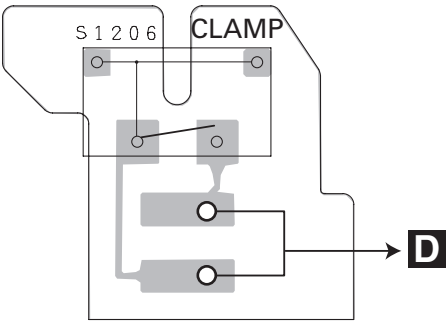
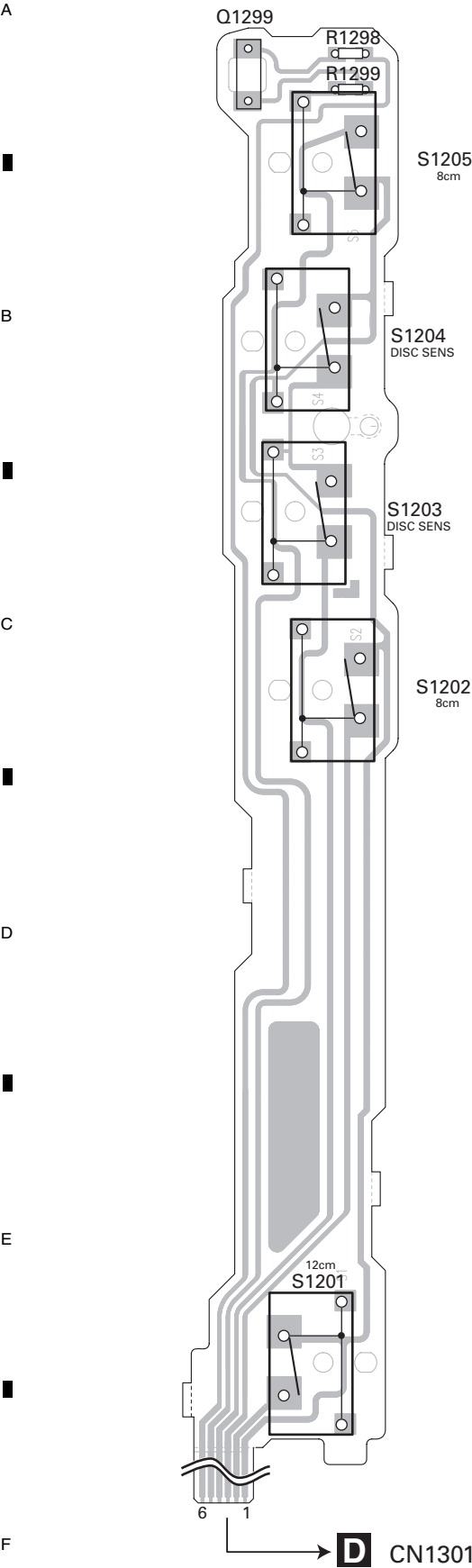
F



11.5 COMPOUND UNIT(A) AND COMPOUND UNIT(B)

E COMPOUND UNIT(A)

F COMPOUND UNIT(B)



E F

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11.6 MONITOR PCB

MONITOR PCB

A

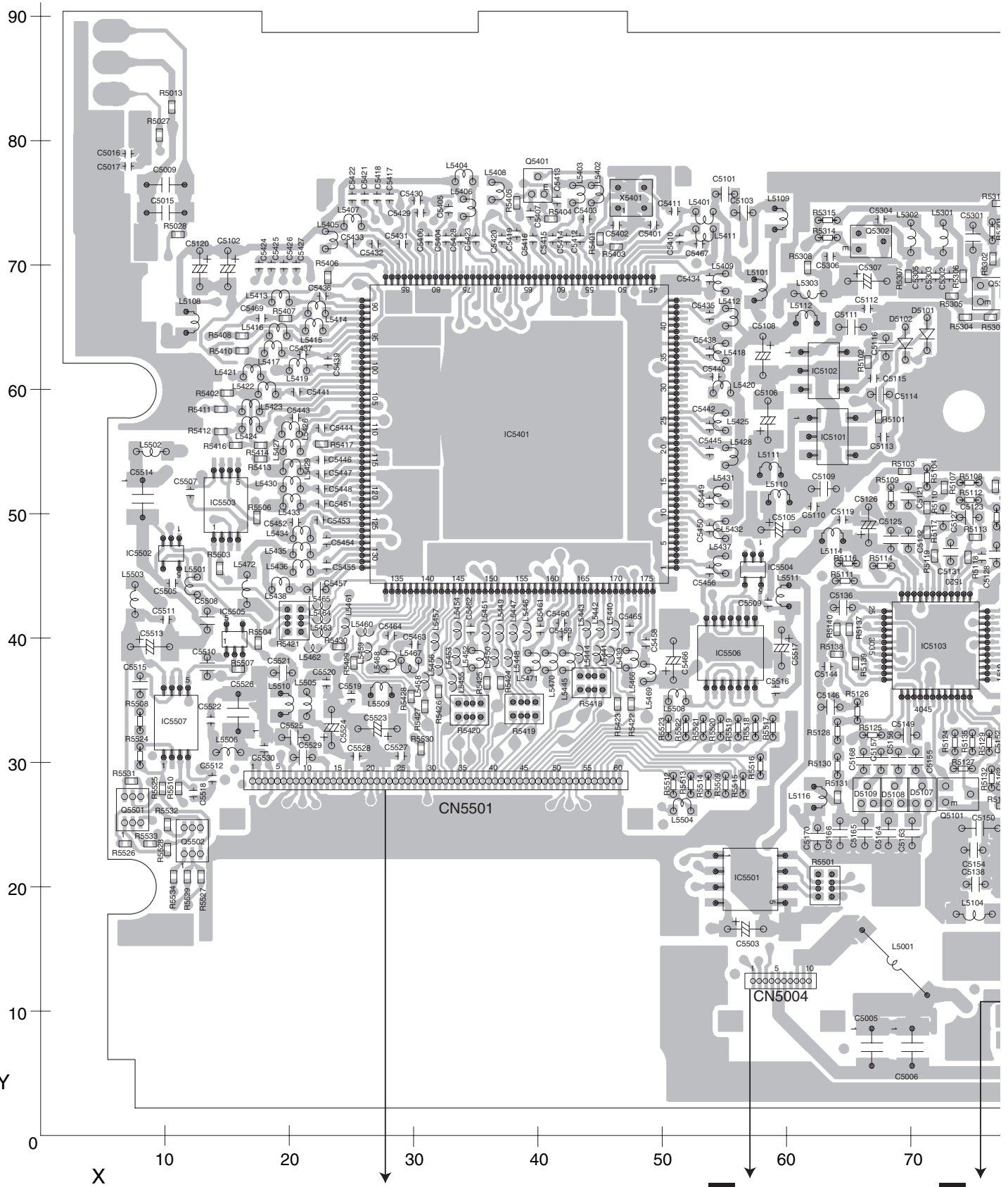
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LCD MODULE

CN5602

CN5004



SIDE A

A

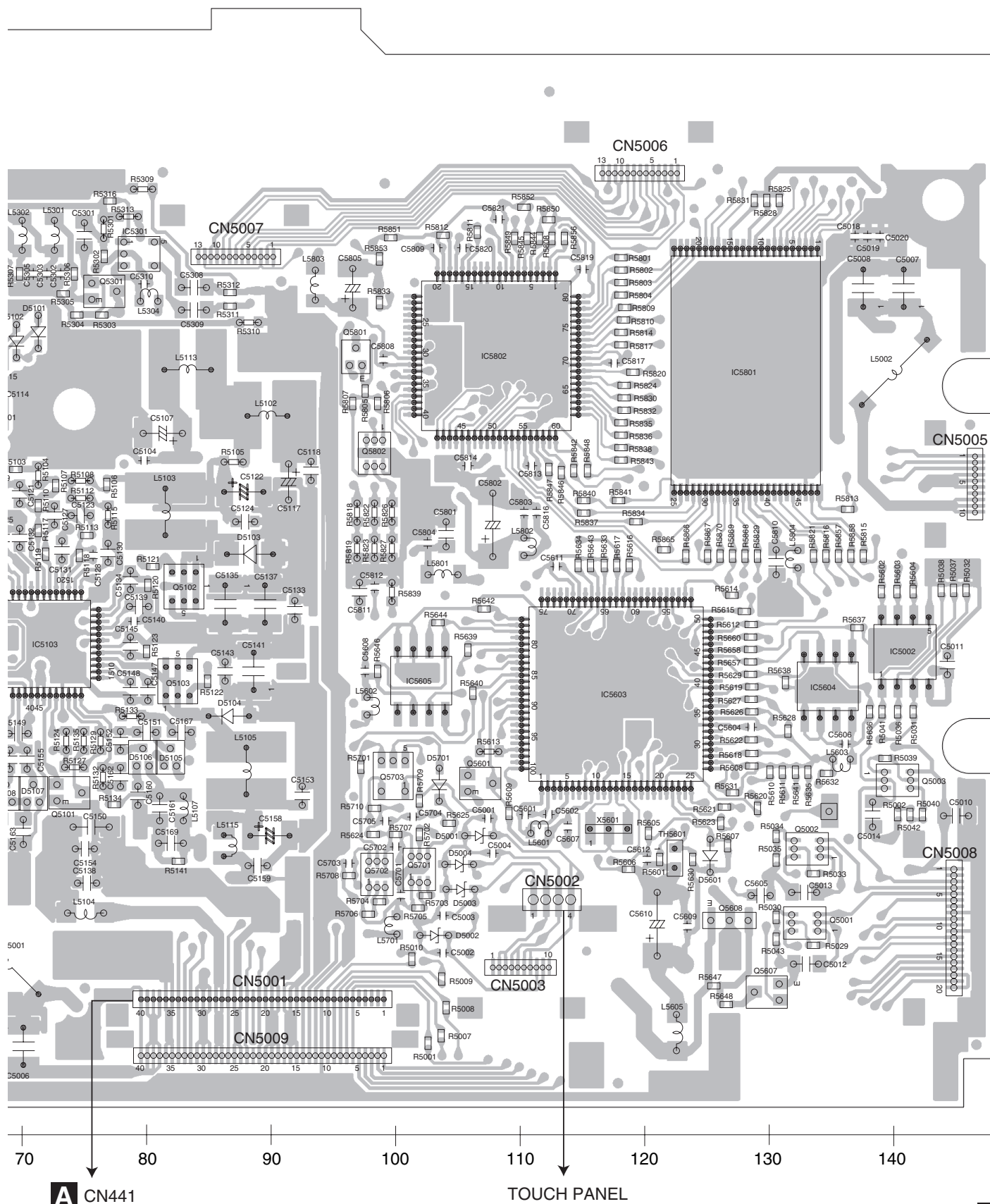
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A CN441

TOUCH PANEL

AVH-P5050DVD/XN/RC

G MONITOR PCB

A

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140

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SIDE B

A

B

C

D

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F

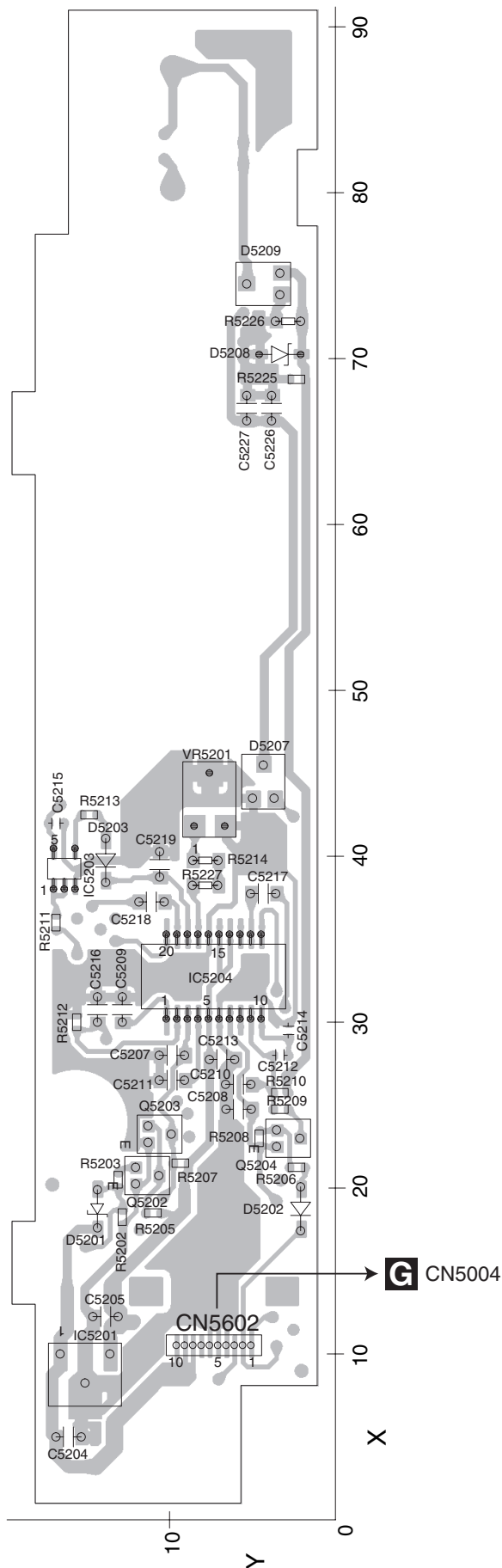


G

11.7 INVERTOR PCB

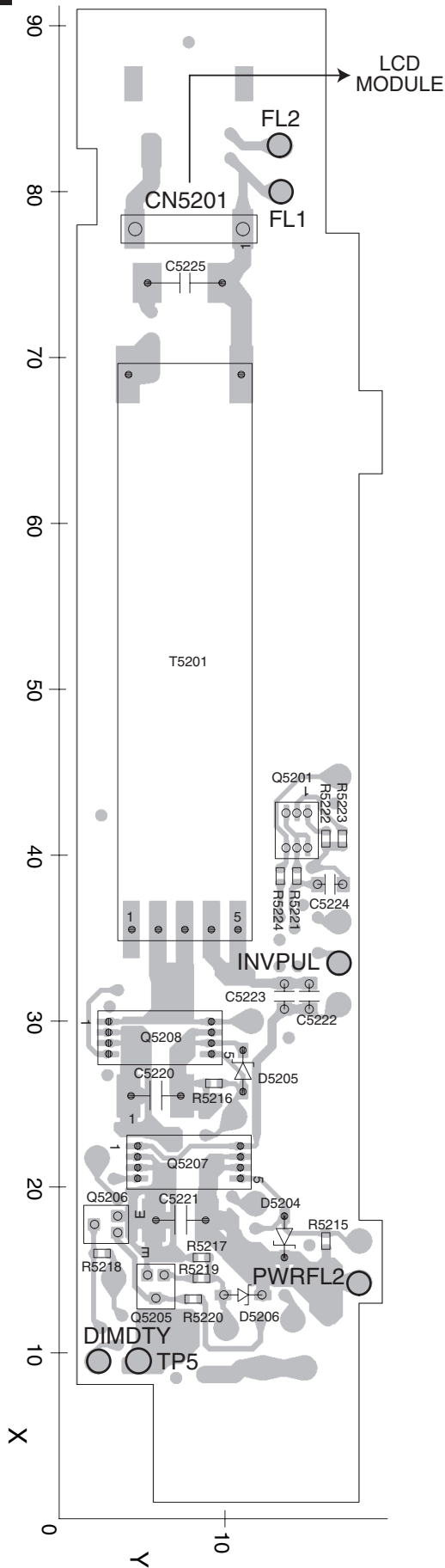
H INVERTOR PCB

SIDE A



H INVERTOR PCB

SIDE B



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AVH-P5050DVD/XN/RC

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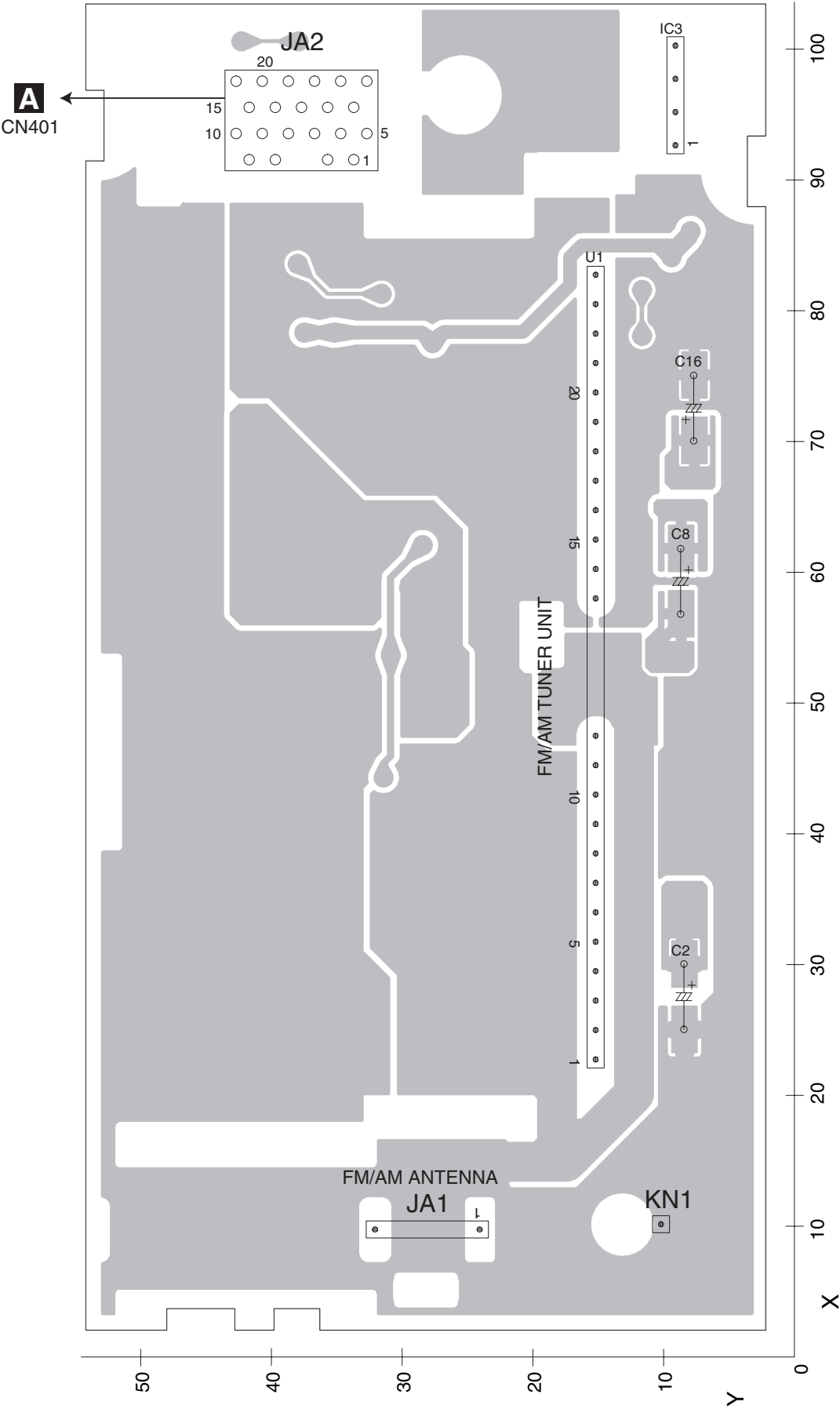
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■

11.8 TUNER BOX UNIT

TUNER BOX UNIT

SIDE A



F



12. ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/○○○○○J,RS1/○○○○○J

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

- The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Meaning of the figures and others in the parentheses in the parts list.

Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.

IC 301 (A, 91, 111) IC NJM2068V

- The expression of the unit in this manual is shown by u instead of μ . Please do not make a mistake.

Circuit Symbol and No.

Part No.

Unit Number :

Unit Name : DVD Amp Unit

Unit Number :

Unit Name : Keyboard Unit

Unit Number : CWN3138

Unit Name : Monitor Unit

Unit Number : CWN3130

Unit Name : Tuner BOX Unit

Unit Number : YWX5005

Unit Name : DVD Core Unit

Unit Number : CWX3595

Unit Name : Compound Unit(A)

Unit Number : CWX3559

Unit Name : Compound Unit(B)

A

Unit Number :

Unit Name : DVD Amp Unit

MISCELLANEOUS

IC 151	(A,126,97) IC	PAL007C
IC 201	(B,118,69) IC	PML018A
IC 301	(B,64,62) IC	AN15887A
IC 441	(B,20,50) IC	TC74VHCT08AFTS1
IC 501	(A,110,37) IC	PE5611B
IC 550	(A,57,15) IC	341S2094
IC 551	(A,127,48) IC	R5523N001B
IC 601	(A,73,34) IC	PE5633A
IC 602	(B,64,25) IC	S-80827CNNB-B8M
IC 701	(A,78,14) IC	TC7WH08FU

Circuit Symbol and No.

Part No.

IC 751	(A,12,74) IC	HA12241FP
IC 951	(A,82,98) L-MOS And Gate	TC7SET08FUS1
IC 1001	(B,106,29) IC	S-812C33AUA-C2N
IC 1031	(A,117,18) IC	S-1206B41-U3
IC 1101	(B,140,63) Regulator	BA00CC0WFP
IC 1202	(B,155,64) IC	LT3461AES6
IC 1401	(B,150,29) IC	AN8011S
IC 1601	(B,115,12) IC	BA00BC0WFP
Q 101	(A,79,89) Transistor	IMH23
Q 111	(A,96,87) Transistor	IMH23
Q 141	(A,89,73) Chip Transistor	DTC114EUA
Q 152	(A,136,76) Transistor	UMD2N
Q 153	(B,106,56) Transistor	UMD3N
Q 154	(A,136,87) Transistor	UMH1N
Q 155	(A,134,79) Transistor	2SC4081
Q 171	(B,143,48) Transistor	UMT1N
Q 172	(B,159,52) Transistor	UMX1N
Q 173	(B,145,56) Chip Transistor	DTC114EUA
Q 351	(A,56,68) Transistor	2SC4081
Q 352	(A,49,69) Chip Transistor	2SA1576A
Q 751	(B,31,55) Transistor	UMF23N
Q 801	(A,51,50) Transistor	UMD3N
Q 802	(B,45,56) Transistor	IMH23
Q 851	(A,95,24) Transistor	UMF23N
Q 903	(A,73,82) Transistor	UMH1N
Q 951	(A,85,93) Chip Transistor	2SA1576A
Q 1001	(B,112,31) Transistor	2SB1184F5
Q 1002	(A,156,96) Transistor	2SD1767
Q 1031	(B,120,34) Chip Transistor	2SA1576A
Q 1032	(A,112,22) Transistor	UMH1N
Q 1071	(B,13,79) Chip Transistor	DTC114EUA
Q 1072	(B,21,73) Transistor	2SA1615-ZS1
Q 1151	(A,39,73) Transistor	2SC4081
Q 1152	(A,40,82) Transistor	2SA2060
Q 1201	(A,161,69) Transistor	2SD1767
Q 1202	(A,158,65) Transistor	UMD3N
Q 1251	(B,101,104) Transistor	2SD1760F5
Q 1252	(B,91,99) Chip Transistor	DTC114EUA
Q 1253	(B,92,96) Chip Transistor	DTC114EUA
Q 1254	(B,97,95) Transistor	UMF5N

5				6				7				8			
Circuit Symbol and No.				Part No.				Circuit Symbol and No.				Part No.			
Q 1303	(A,46,79)	Transistor		2SC4081				D 1002	(A,165,96)	Diode		S1G-6904G2P			
Q 1304	(A,52,85)	Transistor		2SA1952				D 1031	(B,116,20)	Diode		S1G-6904G2P			
Q 1305	(A,44,74)	Chip Transistor		DTC114EUA				D 1051	(B,20,39)	Diode		S1G-6904G2P			
Q 1401	(A,148,20)	Transistor		2SJ529S				D 1201	(A,161,64)	Diode		HZU5R6(B2)			A
Q 1402	(A,150,40)	Transistor		2SJ529S				D 1251	(B,92,103)	Diode		HZU9R1(B2)			
								D 1252	(B,94,100)	Diode		HZU8R2(B2)			
Q 1403	(B,153,20)	Transistor		2SC4097				D 1253	(B,94,95)	Diode		HZU6R8(B3)			
Q 1404	(B,154,38)	Transistor		2SC4097				D 1301	(B,56,77)	Diode		MALS068X			
Q 1405	(B,142,33)	Chip Transistor		DTC114EUA				D 1302	(A,50,74)	Diode		UDZS16(B)			
Q 1501	(B,130,21)	Transistor		2SC4081				D 1401	(A,131,43)	Diode		RSX201L-30			
Q 1502	(B,126,17)	Transistor		2SB1708				D 1402	(A,141,29)	Diode		RSX201L-30			
Q 1522	(B,142,12)	Transistor		UMF23N				D 1403	(A,141,32)	Diode		RSX201L-30			
Q 1542	(B,134,11)	Transistor		UMF5N				D 1404	(B,156,23)	Diode		MA111			
Q 1621	(A,21,34)	Chip Transistor		DTC114EUA				D 1405	(B,156,35)	Diode		MA111			B
Q 1622	(A,27,34)	Transistor		2SB1132				D 1406	(A,162,42)	Diode		RSX201L-30			
Q 1701	(B,20,27)	Transistor		2SC4081				D 1407	(A,162,45)	Diode		RSX201L-30			
Q 1702	(B,25,27)	Transistor		2SB1708				D 1702	(B,23,20)	Diode		RSX201L-30			
D 101	(A,78,85)	Diode		DAP202U				L 140	(A,88,77)	Inductor		CTF1295			
D 111	(A,100,87)	Diode		DAP202U				L 171	(B,143,52)	Inductor		LCTAW2R2J2520			
D 121	(B,85,78)	Diode		MALS068X				L 172	(B,151,50)	Inductor		LCTAW2R2J2520			
D 122	(B,94,89)	Diode		MALS068X				L 502	(B,117,38)	Inductor		CTF1473			
D 123	(B,86,76)	Diode		MALS068X				L 550	(A,64,17)	Chip Coil		LCTAW100J2520			
D 126	(B,92,89)	Diode		MALS068X				L 551	(A,128,53)	Inductor		CTF1713			
D 127	(B,84,86)	Diode		MALS068X				L 601	(A,51,43)	Inductor		LCTAW2R2J2520			
D 140	(A,91,75)	Diode		UDZS5R6(B)				L 602	(A,56,44)	Inductor		CTF1473			C
D 151	(A,132,77)	Diode		DAN202U				L 701	(A,75,11)	Inductor		CTF1306			
D 152	(A,156,74)	Diode		S1G-6904G2P				L 751	(A,18,72)	Inductor		CTF1389			
D 153	(B,134,83)	Diode		S1G-6904G2P				L 951	(A,76,95)	Inductor		CTF1389			
D 154	(B,155,112)	Diode		S1G-6904G2P				L 952	(A,88,95)	Inductor		CTF1379			
D 155	(A,136,81)	Diode		1SS355				L 1051	(A,18,44)	Coil		CTH1267			
D 156	(A,151,80)	Diode		UDZS8R2(B)				L 1071	(A,23,78)	Inductor		CTH1262			
D 171	(B,139,51)	Diode		DAN202U				L 1201	(B,156,68)	Power Inductor(10U)		DTL1124			
D 172	(B,148,48)	Diode		DAN202U				L 1202	(B,160,66)	Inductor		CTF1473			
D 173	(B,157,56)	Diode		HZU7L(C3)				L 1401	(A,138,22)	Coil		CTH1303			
D 174	(B,164,54)	Diode		HZU7L(A1)				L 1402	(A,140,38)	Coil		CTH1303			
D 175	(B,151,81)	Diode		S1G-6904G2P				L 1403	(B,158,24)	Chip Coil		LCTAW100J2520			D
D 176	(B,151,77)	Diode		S1G-6904G2P				L 1404	(A,162,52)	Inductor		CTH1254			
D 177	(B,151,58)	Diode		1SS355				X 501	(B,100,39)	Ceramic Resonator		16.934 MHz CSS1603			
D 301	(A,74,63)	Diode		S1G-6904G2P				X 502	(A,122,51)	Oscillator 48.000 MHz		CSS1756			
D 302	(A,71,63)	Diode		S1G-6904G2P				X 601	(A,52,34)	Oscillator 4.718 592 MHz		CSS1703			
D 401	(B,41,98)	Diode		RSB6R8F2				VR1401	(A,147,33)	Semi-fixed 10 kohm(B)		CCP1448			
D 402	(B,36,97)	Diode		RSB6R8F2				BZ601	(A,93,14)	Buzzer		CPV1063			
D 403	(B,38,97)	Diode		RSB6R8F2				⚠P121	(A,95,92)	Fuse 40 A		MINISMDC075F/24			
D 404	(B,29,100)	Diode		RSB6R8F2				⚠P122	(A,94,79)	Fuse 40 A		MINISMDC075F/24			
D 411	(B,36,107)	Diode		MALS068X				⚠P402	(A,41,104)	Fuse 0.5 A		CEK1278			
D 412	(B,35,107)	Diode		MALS068X				⚠P441	(A,23,71)	Fuse 250 mA		CEK1276			
D 431	(B,73,96)	Diode		MALS068X				⚠P442	(A,21,71)	Fuse 250 mA		CEK1276			
D 432	(B,65,100)	Diode		MALS068X				⚠P443	(A,27,71)	Fuse 2 A		CEK1284			
D 501	(A,126,51)	Diode		EMZC6.8N				⚠P801	(A,41,23)	Fuse 1.25 A		CEK1281			
D 601	(B,64,28)	Diode		1SS355				⚠P1051	(B,29,55)	Fuse 1.25 A		CEK1281			
D 602	(B,58,50)	Diode		RB521S-30				⚠P1071	(B,18,82)	Fuse 2 A		CEK1284			
D 603	(B,62,43)	Diode		RB521S-30											
D 801	(B,45,52)	Diode		DAP202U											
D 851	(B,96,30)	Diode		UDZS5R6(B)				⚠P1151	(A,44,82)	Fuse 750 mA		CEK1279			
D 852	(B,77,28)	Diode		UMZ6R8EN				⚠P1251	(B,88,103)	Fuse 0.5 A		CEK1278			
D 853	(A,92,24)	Diode		UMZ6R8EN				⚠P1301	(B,52,81)	Fuse 40 A		MINISMDC075F/24			
D 901	(B,73,87)	Diode		RSB6R8F2				⚠P1401	(A,133,41)	Fuse 4 A		CEK1288			
D 902	(B,73,90)	Diode		RSB6R8F2				⚠P1402	(A,131,18)	Fuse 3 A		CEK1286			
D 903	(B,68,100)	Diode		RSB6R8F2				⚠P1403	(A,166,42)	Fuse 3.5 A		CEK1287			F
D 904	(B,55,85)	Diode		RSB6R8F2											
D 951	(A,79,96)	Diode		MALS068X											
D 1001	(A,161,93)	Diode		UDZS18(B)											

RESISTORS

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Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

A	R 101	(A,76,82)	RS1/16SS820J	R 306	(B,51,56)	RS1/16SS0R0J
	R 102	(A,81,90)	RS1/16SS473J	R 307	(B,52,60)	RS1/16SS1000D
	R 103	(A,81,88)	RS1/16SS473J	R 308	(B,69,74)	RS1/16SS1000D
	R 104	(A,80,82)	RS1/16SS820J	R 309	(B,51,71)	RS1/16SS1000D
	R 111	(A,100,89)	RS1/16SS820J	R 310	(B,69,73)	RS1/16SS1000D
■	R 112	(A,94,88)	RS1/16SS473J	R 311	(B,78,84)	RS1/16SS223J
	R 113	(A,94,86)	RS1/16SS473J	R 314	(B,74,67)	RS1/16SS1000D
	R 114	(A,96,84)	RS1/16SS820J	R 316	(B,74,66)	RS1/16SS1000D
	R 121	(A,82,82)	RS1/16SS750J	R 317	(B,74,65)	RS1/16SS0R0J
	R 122	(B,83,73)	RS1/16SS750J	R 318	(B,51,65)	RS1/16SS1000D
B	R 140	(A,90,77)	RS1/16SS103J	R 319	(B,74,64)	RS1/16SS0R0J
	R 141	(A,91,28)	RS1/16SS104J	R 320	(B,74,63)	RS1/16SS0R0J
	R 151	(A,134,74)	RS1/16SS0R0J	R 321	(B,51,63)	RS1/16SS1000D
	R 152	(A,139,76)	RS1/16SS222J	R 322	(B,74,61)	RS1/16SS0R0J
	R 153	(B,109,56)	RS1/16SS103J	R 324	(B,74,60)	RS1/16SS1000D
■	R 154	(B,104,56)	RS1/16SS473J	R 325	(B,51,69)	RS1/16SS1000D
	R 155	(A,136,85)	RS1/16SS683J	R 326	(B,74,59)	RS1/16SS1000D
	R 156	(A,136,84)	RS1/16SS152J	R 327	(A,74,93)	RS1/16SS223J
	R 157	(A,136,83)	RS1/16SS683J	R 328	(B,74,58)	RS1/16SS1000D
	R 158	(A,139,88)	RS1/16SS101J	R 329	(B,51,58)	RS1/16SS1000D
C	R 159	(A,132,81)	RS1/16SS103J	R 330	(B,74,57)	RS1/16SS1000D
	R 160	(A,138,78)	RS1/16SS104J	R 331	(A,75,91)	RS1/16SS223J
	R 161	(A,138,79)	RS1/16SS473J	R 332	(B,74,56)	RS1/16SS1000D
	R 171	(B,146,46)	RS1/16SS473J	R 333	(B,51,54)	RS1/16SS0R0J
	R 172	(B,141,48)	RS1/16SS473J	R 334	(B,74,55)	RS1/16SS1000D
■	R 173	(B,146,48)	RS1/16SS473J	R 338	(B,70,52)	RS1/16SS1000D
	R 174	(B,139,48)	RS1/16SS472J	R 339	(B,70,51)	RS1/16SS1000D
	R 175	(B,143,50)	RS1/16SS473J	R 340	(B,59,53)	RS1/16SS221J
	R 176	(B,148,50)	RS1/16SS103J	R 341	(B,59,52)	RS1/16SS0R0J
	R 177	(B,146,53)	RS1/16SS153J	R 343	(A,74,58)	RS1/16SS4R7J
D	R 178	(B,156,52)	RS1/16SS104J	R 344	(A,73,57)	RS1/16SS680J
	R 179	(B,161,52)	RS1/16SS103J	R 345	(A,66,65)	RS1/16SS0R0J
	R 180	(B,161,54)	RS1/16SS473J	R 351	(A,56,66)	RS1/16SS223J
	R 181	(B,162,54)	RS1/16SS473J	R 352	(A,54,71)	RS1/16SS303J
	R 182	(B,163,57)	RS1/16SS472J	R 353	(A,53,71)	RS1/16SS681J
■	R 183	(B,149,56)	RS1/16SS103J	R 354	(A,52,68)	RS1/16S2001D
	R 184	(B,156,48)	RS1/16SS0R0J	R 355	(A,50,72)	RS1/16SS681J
	R 185	(B,158,54)	RS1/16SS0R0J	R 356	(A,51,70)	RS1/16S1201D
	R 201	(A,128,83)	RS1/16SS272J	R 403	(A,37,90)	RS1/16SS0R0J
	R 202	(A,123,83)	RS1/16SS272J	R 404	(B,37,88)	RS1/16SS0R0J
■	R 203	(A,128,81)	RS1/16SS162J	R 407	(B,35,102)	RS1/16SS223J
	R 204	(A,122,83)	RS1/16SS162J	R 408	(B,36,102)	RS1/16SS223J
	R 205	(B,128,73)	RS1/16SS102J	R 409	(A,29,103)	RS1/16SS0R0J
	R 206	(B,128,72)	RS1/16SS102J	R 410	(A,35,90)	RS1/16SS0R0J
	R 207	(B,128,71)	RS1/16SS102J	R 411	(B,36,87)	RS1/16SS0R0J
E	R 208	(A,116,75)	RS1/16S0R0J	R 413	(A,32,105)	RS1/16SS0R0J
	R 209	(A,126,81)	RS1/16SS162J	R 414	(A,36,105)	RS1/16SS0R0J
	R 210	(A,125,81)	RS1/16SS162J	R 415	(A,29,102)	RS1/16SS0R0J
	R 211	(A,127,83)	RS1/16SS272J	R 422	(A,38,90)	RS1/16SS0R0J
	R 212	(A,124,83)	RS1/16SS272J	R 431	(A,58,97)	RS1/16SS102J
■	R 213	(A,115,67)	RS1/16S0R0J	R 432	(A,57,97)	RS1/16SS102J
	R 214	(B,105,67)	RS1/16SS1000D	R 441	(B,17,63)	RS1/16SS102J
	R 215	(B,130,67)	RS1/16SS1000D	R 442	(B,14,66)	RS1/16SS102J
	R 216	(B,107,69)	RS1/16SS563J	R 443	(B,19,61)	RS1/16SS102J
	R 217	(B,128,70)	RS1/16SS563J	R 444	(B,21,60)	RS1/16SS102J
F	R 301	(B,75,86)	RS1/16SS223J	R 445	(B,13,66)	RS1/16SS102J
	R 302	(B,51,67)	RS1/16SS1000D	R 446	(B,24,59)	RS1/16SS102J
	R 303	(B,51,64)	RS1/16SS1000D	R 447	(A,13,63)	RS1/16SS102J
	R 304	(B,79,64)	RS1/16SS0R0J	R 448	(B,32,62)	RS1/16SS0R0J
	R 305	(B,79,61)	RS1/16SS0R0J	R 449	(B,33,62)	RS1/16SS0R0J

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<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>	
R 451	(A,47,70)	RS1/16SS0R0J		R 614	(B,63,35)	RS1/16SS102J	A
R 501	(A,96,43)	RS1/16SS473J		R 615	(B,60,31)	RS1/16SS104J	
R 502	(A,119,50)	RS1/16SS151J		R 616	(A,57,26)	RS1/16SS102J	
R 503	(B,119,47)	RS1/16SS33R0D		R 617	(A,58,26)	RS1/16SS472J	
R 504	(B,119,46)	RS1/16SS33R0D		R 618	(A,59,30)	RS1/16SS221J	
R 505	(B,114,47)	RS1/16SS473J		R 619	(A,59,29)	RS1/16SS221J	
R 506	(B,113,45)	RS1/16SS473J		R 620	(B,61,31)	RS1/16SS104J	
R 507	(A,113,52)	RS1/16S0R0J		R 621	(A,59,36)	RS1/16SS102J	
R 509	(B,111,48)	RS1/16SS102J		R 622	(B,67,41)	RS1/16SS104J	B
R 510	(B,97,47)	RS1/16SS472J		R 623	(B,61,40)	RS1/16SS473J	
R 511	(B,97,45)	RS1/16SS473J		R 624	(B,61,29)	RS1/16SS104J	
R 512	(B,103,51)	RS1/16SS473J		R 625	(B,60,49)	RS1/16SS103J	
R 513	(B,114,48)	RS1/16SS473J		R 626	(A,62,47)	RS1/16SS0R0J	
R 514	(A,115,51)	RS1/16SS134J		R 627	(A,62,45)	RS1/16SS152J	
R 517	(B,116,53)	RS1/16S0R0J		R 628	(A,62,21)	RS1/16SS0R0J	
R 518	(A,53,20)	RS1/16SS104J		R 629	(B,66,41)	RS1/16SS104J	
R 519	(B,66,29)	RS1/16SS104J		R 630	(A,68,49)	RS1/16SS472J	
R 520	(A,125,32)	RS1/16S0R0J		R 631	(A,83,18)	RS1/16SS104J	
R 521	(A,116,24)	RS1/16S0R0J		R 632	(B,65,22)	RS1/16SS104J	
R 522	(A,96,31)	RS1/16SS0R0J		R 633	(A,59,28)	RS1/16SS102J	
R 523	(B,102,53)	RS1/16SS821J		R 634	(A,125,42)	RS1/16SS102J	
R 524	(B,100,53)	RS1/16SS821J		R 635	(B,66,22)	RS1/16SS104J	
R 525	(A,93,41)	RS1/16SS0R0J		R 637	(B,68,24)	RS1/16SS104J	
R 526	(A,109,51)	RS1/16SS103J		R 638	(B,68,41)	RS1/16SS104J	
R 527	(A,103,51)	RS1/16SS473J		R 639	(B,70,41)	RS1/16SS104J	C
R 528	(B,98,34)	RS1/16SS0R0J		R 640	(A,69,48)	RS1/16SS102J	
R 529	(A,93,38)	RS1/16SS0R0J		R 641	(B,66,46)	RS1/16SS153J	
R 530	(A,104,51)	RS1/16SS473J		R 642	(B,71,19)	RS1/16SS104J	
R 531	(A,105,51)	RS1/16SS473J		R 643	(A,70,48)	RS1/16SS102J	
R 532	(A,106,51)	RS1/16SS473J		R 644	(B,70,26)	RS1/16SS102J	
R 533	(A,116,51)	RS1/16SS0R0J		R 645	(A,69,17)	RS1/16SS472J	
R 534	(A,117,51)	RS1/16SS0R0J		R 646	(A,71,48)	RS1/16SS102J	
R 551	(A,56,20)	RS1/16SS104J		R 647	(B,71,26)	RS1/16SS221J	
R 552	(A,55,20)	RS1/16SS104J		R 649	(A,72,50)	RS1/16SS102J	
R 553	(A,54,20)	RS1/16SS104J		R 651	(B,72,26)	RS1/16SS221J	
R 554	(A,58,20)	RS1/16SS103J		R 652	(A,70,17)	RS1/16SS472J	D
R 555	(A,52,17)	RS1/16SS102J		R 653	(A,72,48)	RS1/16SS102J	
R 556	(A,52,16)	RS1/16SS104J		R 654	(A,71,17)	RS1/16SS104J	
R 557	(A,62,14)	RS1/16SS102J		R 655	(B,73,26)	RS1/16SS221J	
R 558	(A,52,14)	RS1/16SS103J		R 656	(A,72,17)	RS1/16SS104J	
R 559	(A,52,13)	RS1/16SS1003F		R 657	(B,74,26)	RS1/16SS221J	
R 560	(A,122,47)	RS1/16SS153J		R 658	(B,74,45)	RS1/16SS104J	
R 561	(A,122,48)	RS1/16SS153J		R 659	(A,73,48)	RS1/16SS102J	
R 562	(A,128,55)	RS1/16S0R0J		R 660	(A,74,48)	RS1/16SS102J	
R 563	(A,130,51)	RS1/16S0R0J		R 661	(A,76,48)	RS1/16SS102J	
R 564	(A,128,57)	RS1/16S0R0J		R 662	(A,75,18)	RS1/16SS102J	
R 601	(B,64,27)	RS1/16SS104J		R 663	(A,76,18)	RS1/16SS102J	
R 602	(B,66,32)	RS1/16SS182J		R 664	(A,66,48)	RS1/16SS102J	E
R 603	(B,66,31)	RS1/16SS182J		R 665	(A,78,17)	RS1/16SS104J	
R 604	(A,59,31)	RS1/16SS102J		R 666	(A,65,48)	RS1/16SS102J	
R 605	(A,59,32)	RS1/16SS102J		R 667	(A,64,49)	RS1/16SS472J	
R 606	(B,61,41)	RS1/16SS0R0J		R 668	(A,79,48)	RS1/16SS472J	
R 607	(A,58,25)	RS1/16SS0R0J		R 669	(A,81,51)	RS1/16SS104J	
R 608	(A,56,31)	RS1/16SS102J		R 670	(A,79,18)	RS1/16SS104J	
R 609	(A,80,18)	RS1/16SS0R0J		R 671	(A,79,51)	RS1/16SS104J	
R 610	(A,81,18)	RS1/16SS471J		R 673	(A,81,48)	RS1/16SS471J	F
R 611	(A,82,18)	RS1/16SS471J		R 674	(A,82,48)	RS1/16SS471J	
R 612	(A,59,42)	RS1/16SS101J		R 675	(A,86,45)	RS1/16SS104J	
R 613	(A,59,41)	RS1/16SS101J		R 676	(B,87,31)	RS1/16SS104J	
				R 677	(A,62,20)	RS1/16SS0R0J	

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Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

R 679 (A,88,23) RS1/16SS104J
 R 680 (A,85,21) RS1/16SS102J
 R 682 (B,81,36) RS1/16SS104J
 R 683 (A,88,31) RS1/16SS104J
 R 685 (A,87,22) RS1/16SS103J

R 902 (A,73,85) RS1/16S3902F
 R 903 (A,72,93) RS1/16SS0R0J
 R 904 (A,72,91) RS1/16SS0R0J
 R 905 (A,71,83) RS1/16SS104J

R 686 (A,89,42) RS1/16SS0R0J
 R 687 (A,88,28) RS1/16SS103J
 R 688 (A,88,34) (RC,RI) RS1/16SS104J
 R 689 (B,82,36) (RD) RS1/16SS104J
 R 690 (B,66,45) RS1/16SS333J

R 906 (A,71,81) RS1/16SS471J
 R 907 (A,61,78) RS1/16SS471J
 R 908 (A,72,88) RS1/16SS102J
 R 909 (A,60,84) RS1/16SS750J
 R 910 (A,72,89) RS1/16SS472J

R 691 (A,88,26) RS1/16SS104J
 R 693 (A,88,24) RS1/16SS104J
 R 694 (A,88,33) (RD,RI) RS1/16SS104J
 R 695 (B,80,36) (RC) RS1/16SS104J
 R 696 (A,88,36) RS1/16SS104J

R 911 (A,61,86) RS1/16SS0R0J
 R 912 (A,61,90) RS1/16SS0R0J
 R 951 (A,17,28) RS1/16SS0R0J
 R 952 (A,81,100) RS1/16SS473J
 R 953 (A,82,93) RS1/16SS104J

R 697 (A,84,12) RS1/16SS102J
 R 698 (B,71,9) RS1/16SS0R0J
 R 699 (B,64,14) RS1/16SS0R0J
 R 700 (B,63,15) RS1/16SS0R0J
 R 701 (B,63,16) RS1/16SS0R0J

R 954 (A,82,95) RS1/16SS103J
 R 955 (A,80,96) RS1/16SS121J
 R 1001 (B,112,38) RS1/16SS391J
 R 1002 (A,168,94) RS1/16S2R2J
 R 1003 (A,168,93) RS1/16S2R2J

R 702 (A,67,18) RS1/16SS0R0J
 R 703 (B,63,17) RS1/16SS0R0J
 R 704 (B,63,19) RS1/16S222J
 R 705 (B,67,22) RS1/16SS0R0J
 R 706 (A,78,11) RS1/16SS102J

R 1004 (A,165,94) RS1/16S2R2J
 R 1005 (A,165,93) RS1/16S2R2J
 R 1006 (A,160,96) RS1/16SS271J
 R 1031 (B,118,31) RS1/16SS223J
 R 1032 (B,117,33) RS1/16SS473J

R 707 (A,78,16) RS1/16SS102J
 R 711 (A,152,47) (RC) RS1/16SS0R0J
 R 712 (A,152,46) (RD) RS1/16SS0R0J
 R 713 (A,152,44) (RI) RS1/16SS0R0J

R 1035 (A,110,19) RS1/16SS223J
 R 1071 (B,16,80) RS1/16SS271J
 R 1072 (B,16,78) RS1/16SS331J
 R 1073 (B,17,80) RS1/16SS153J
 R 1101 (B,141,72) RS1/16SS5602D

R 751 (B,10,78) RS1/16SS222J
 R 752 (B,23,100) RS1/16SS181J
 R 753 (B,31,58) RS1/16SS332J
 R 754 (B,22,95) RS1/16SS181J
 R 755 (A,21,102) RS1/16SS150J

R 1102 (B,142,71) RS1/16SS1201D
 R 1103 (B,143,71) RS1/16SS1002D
 R 1104 (B,135,70) RS1/16SS102J
 R 1151 (A,40,77) RAB4C331J
 R 1152 (A,39,70) RS1/16SS562J

R 756 (A,21,100) RS1/16SS470J
 R 757 (B,23,98) RS1/16SS223J
 R 758 (A,22,102) RS1/16SS101J
 R 759 (A,21,98) RS1/16SS101J
 R 760 (B,33,58) RS1/16SS562J

R 1153 (A,39,71) RS1/16SS103J
 R 1154 (A,43,80) RS1/16SS103J
 R 1203 (B,152,64) RS1/16SS223J
 R 1204 (A,154,63) RS1/16SS1503D
 R 1205 (A,155,63) RS1/16SS1103D

R 761 (B,23,95) RS1/16SS223J
 R 762 (B,23,97) RS1/16SS102J
 R 763 (B,23,96) RS1/16SS102J
 R 764 (A,8,76) RS1/16SS102J
 R 801 (A,44,21) RS1/16SS102J

R 1206 (A,156,61) RS1/16SS1202D
 R 1207 (A,155,59) RS1/16SS1202D
 R 1208 (A,155,61) RS1/16SS5601D
 R 1209 (A,157,67) RS1/16SS562J
 R 1210 (B,152,68) RS1/16SS0R0J

R 802 (A,42,16) RS1/16SS0R0J
 R 803 (A,41,14) RS1/16SS0R0J
 R 804 (A,41,13) RS1/16SS0R0J
 R 805 (A,43,12) RS1/16SS0R0J
 R 806 (A,42,19) RAB4C221J

R 1213 (A,155,66) RS1/16S0R0J
 R 1251 (B,96,98) RS1/16SS271J
 R 1252 (B,96,97) RS1/16SS271J
 R 1253 (B,98,97) RS1/16SS271J
 R 1254 (B,100,96) RS1/16SS473J

R 807 (A,47,22) RS1/16SS471J
 R 808 (A,54,50) RS1/16SS102J
 R 810 (A,41,30) RS1/10S0R0J
 R 851 (A,95,21) RS1/16SS332J
 R 852 (A,96,21) RS1/16SS332J

R 1255 (B,100,94) RS1/16SS103J
 R 1301 (B,54,78) RS1/16SS683J
 R 1302 (B,57,77) RS1/16SS123J
 R 1303 (A,48,97) RAB4C330J
 R 1304 (A,48,102) RAB4C330J

R 853 (B,84,40) RS1/16S333J
 R 857 (A,84,15) RS1/16S102J
 R 858 (B,76,35) RS1/16S102J
 R 859 (B,78,35) RS1/16S102J
 R 862 (B,93,30) RS1/16SS0R0J

R 1310 (A,46,76) RS1/16SS103J
 R 1311 (A,49,78) RS1/16SS103J
 R 1312 (A,47,75) RS1/16SS562J
 R 1313 (A,47,74) RS1/16SS102J
 R 1314 (A,48,93) RAB4C330J

R 901 (A,71,85) RS1/16S5103D

R 1401 (A,149,27) RS1/16S4701D

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<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>	
R 1402	(B,141,20)	RS1/16S0R0J		C 157	(A,125,88)	CKSRYB474K16	
R 1403	(B,147,21)	RS1/16S3901D		C 158	(A,127,88)	CKSRYB474K16	
R 1404	(B,141,38)	RS1/16S0R0J		C 159	(A,128,88)	CKSRYB474K16	
R 1405	(B,147,39)	RS1/16S6801D		C 160	(B,120,84)	CKSQYB225K16	A
				C 161	(A,147,94)	CKSRYB104K50	
R 1406	(B,144,22)	RS1/16S2202D					
R 1407	(B,147,22)	RS1/16S2202D		C 162	(B,118,82) 10 uF	CCG1236	
R 1408	(B,144,38)	RS1/16S1200D		C 163	(A,152,87) 1 000 uF/16 V	CCH1428	
R 1409	(B,147,38)	RS1/16S3301D		C 164	(B,116,84)	CKSQYB225K16	
R 1410	(A,150,32)	RS1/16S5600D		C 165	(B,158,111)	CKSQYB104K50	
				C 166	(A,139,85)	CKSQYB475K10	
R 1411	(A,155,18)	RS1/16SS560J					
R 1412	(B,156,38)	RS1/16SS560J		C 167	(A,132,84)	CKSYB106K10	
R 1413	(B,152,23)	RS1/16SS272J		C 171	(B,151,47)	CKSRYB103K50	
R 1414	(B,154,23)	RS1/16SS221J		C 172	(B,146,51)	CKSRYB104K50	
R 1415	(B,154,36)	RS1/16SS272J		C 173	(B,153,50)	CKSRYB104K50	
				C 174	(B,163,58)	CKSRYB104K50	B
R 1416	(A,148,27)	RS1/16S6801D					
R 1417	(B,154,35)	RS1/16SS221J		C 175	(B,148,56)	CKSRYB105K16	
R 1418	(B,147,24)	RS1/16SS1502D		C 176	(B,152,56)	CKSRYB104K50	
R 1419	(B,147,35)	RS1/16SS6801D		C 177	(A,150,74)	CEVLW470M16	
R 1420	(B,150,24)	RS1/16S2203D		C 202	(B,127,67)	CKSQYB225K10	
				C 203	(B,127,65)	CKSQYB225K10	
R 1421	(B,150,35)	RS1/16S2202D					
R 1422	(B,149,37)	RS1/16S3302D		C 204	(B,127,61)	CKSQYB225K10	
R 1423	(B,145,35)	RS1/16SS6802D		C 205	(B,127,63)	CKSQYB225K10	
R 1425	(A,152,26)	RS1/16SS3302D		C 206	(B,126,59)	CKSSYB104K10	
R 1426	(A,151,32)	RS1/16SS3302D		C 207	(A,118,71)	CEVLW100M16	
				C 208	(B,109,76) 10 uF	CCG1203	
R 1501	(B,134,19)	RAB4C680J					C
R 1503	(B,130,18)	RS1/16SS473J		C 209	(B,108,67)	CKSQYB225K10	
R 1504	(B,127,21)	RS1/16SS562J		C 210	(B,108,65)	CKSQYB225K10	
R 1505	(B,128,21)	RS1/16SS103J		C 211	(B,108,63)	CKSQYB225K10	
R 1522	(B,139,13)	RS1/16SS392J		C 212	(B,108,61)	CKSQYB225K10	
				C 213	(B,107,59)	CKSSYB104K10	
R 1523	(B,139,11)	RS1/16SS223J					
R 1542	(B,132,12)	RS1/16SS222J		C 214	(B,110,59)	CKSRYB224K16	
R 1543	(B,132,10)	RS1/16SS223J		C 215	(A,109,75)	CEVLW470M16	
R 1602	(A,123,12)	RS1/16SS2201D		C 216	(B,111,75)	CKSSYB104K16	
R 1603	(A,123,10)	RS1/16SS1502D		C 217	(A,109,67)	CEVLW470M16	
				C 218	(B,110,70)	CKSSYB104K10	
R 1604	(A,122,10)	RS1/16SS1002D					
R 1605	(A,121,10)	RS1/16SS0R0J		C 219	(B,108,69)	CCSRCH152J50	D
R 1621	(A,23,36)	RS1/16SS102J		C 220	(B,128,68)	CCSRCH152J50	
R 1623	(A,23,34)	RS1/16SS223J		C 301	(A,70,71)	CEVLW470M16	
R 1701	(B,22,31)	RAB4C680J		C 302	(B,68,72)	CKSSYB104K10	
				C 303	(B,71,70)	CKSSYB104K10	
R 1702	(B,21,24)	RS1/16SS562J					
R 1703	(B,25,30)	RS1/16SS103J		C 304	(B,74,71) 22 uF	CCG1178	
R 1704	(B,20,25)	RS1/16SS103J		C 305	(A,62,68)	CEVLW470M16	
				C 306	(B,58,71)	CKSSYB104K10	
				C 307	(B,58,73) 22 uF	CCG1178	
				C 308	(B,75,78)	CKSRYB105K16	
<u>CAPACITORS</u>							
C 101	(A,77,78)	CKSYB475K10					
C 104	(A,80,78)	CKSYB475K10		C 309	(B,61,71)	CKSSYB104K10	
C 111	(A,101,82)	CKSYB475K10		C 310	(B,76,75)	CKSRYB105K16	E
C 114	(A,98,81)	CKSYB475K10		C 311	(B,62,72)	CKSSYB104K10	
C 121	(B,85,80)	CKSRYB104K50		C 312	(B,63,72)	CKSSYB104K10	
				C 313	(B,64,72)	CKSSYB104K10	
C 122	(B,78,89)	CKSRYB104K50					
C 123	(B,91,89)	CKSRYB104K50		C 314	(B,65,72)	CKSSYB104K10	
C 140	(A,86,74)	CKSRYB104K50		C 315	(B,53,69)	CKSRYB105K16	
C 141	(A,89,75)	CKSRYB104K50		C 316	(B,77,69)	CKSRYB105K16	
C 151	(A,150,65)	CEVLW470M16		C 317	(B,53,70)	CKSRYB105K16	
				C 318	(B,77,67)	CKSRYB105K16	
C 152	(A,123,85)	CKSRYB474K16					
C 153	(A,125,85)	CKSRYB474K16		C 319	(B,53,67)	CKSRYB105K16	
C 154	(A,127,85)	CKSRYB474K16		C 320	(B,77,66)	CKSRYB105K16	
C 155	(A,128,85)	CKSRYB474K16		C 321	(B,53,66)	CKSRYB105K16	
C 156	(A,123,88)	CKSRYB474K16		C 322	(B,77,64)	CKSRYB105K16	F
				C 323	(B,53,64)	CKSRYB105K16	

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Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

C 324 (B,77,63)
C 325 (B,53,63)
C 326 (B,77,61)
C 327 (B,54,61)
C 328 (B,77,60)

CKSRYB105K16
CKSRYB105K16
CKSRYB105K16
CKSSYB104K16
CKSRYB105K16

C 604 (A,57,34)
C 605 (A,56,35)
C 606 (A,58,38)
C 607 (A,59,38)
C 610 (A,60,26)

CCSSCH100D50
CCSSCH100D50
CKSSYB104K10
CKSSYB102K50
CKSSYB103K16

C 329 (B,54,60)
C 330 (B,77,58)
C 331 (B,53,58)
C 332 (B,77,57)
C 333 (B,53,57)

CKSSYB104K16
CKSRYB105K16
CKSRYB105K16
CKSRYB105K16
CKSRYB105K16

C 611 (A,59,44)
C 612 (B,62,38)
C 613 (B,71,45)
C 614 (A,86,21)
C 615 (A,88,41)

CKSRYB105K16
CKSQYB475K6R3
CKSRYB474K16
CKSSYB104K10
CKSSYB103K16

C 334 (B,77,55)
C 335 (B,53,55)
C 336 (B,77,54)
C 337 (B,53,54)
C 338 (B,77,52)

CKSRYB105K16
CKSRYB105K16
CKSRYB105K16
CKSRYB105K16
CKSRYB105K16

C 616 (B,62,35)
C 618 (B,71,47)
C 701 (A,78,12)
C 751 (A,22,98)
C 752 (A,22,100)

CKSSYB104K16
CKSSYB103K16
CKSSYB103K16
CKSSYB102K50
CKSSYB102K50

C 339 (A,54,59)
C 341 (A,62,59)
C 342 (A,69,55)
C 343 (B,66,52)
C 344 (B,67,52)

CEVLW101M10
CEVLW221M4
CEVLW101M6R3
CKSRYB105K16
CKSRYB105K16

C 753 (A,15,73)
C 754 (A,6,97)
C 801 (A,44,25)
C 802 (A,44,30)
C 803 (A,43,35)

CKSSYB104K10
CKSSYB104K16
CKSSYB104K10
CKSSYB104K16
CEVLW101M10

C 345 (B,73,52)
C 346 (B,73,51)
C 347 (B,90,30)
C 348 (B,91,31)
C 351 (A,55,71)

CKSRYB105K16
CKSRYB105K16
CKSSYB682K25
CKSSYB682K25
CKSRYB105K16

C 804 (A,46,25)
C 807 (A,41,26)
C 811 (B,30,15)
C 901 (A,74,88)
C 951 (A,86,97) 10 uF

CKSQYB475K6R3
CKSRYB103K50
CKSRYB103K50
CKSSYB103K16
CCG1171

C 401 (A,43,105)
C 441 (A,35,40)
C 443 (A,42,70)
C 444 (B,18,54)
C 445 (A,34,72)

CKSSYB103K16
CEVLW101M6R3
CKSSYB104K10
CKSSYB104K16
CKSRYB103K50

C 952 (A,84,97)
C 1001 (B,117,34)
C 1002 (A,105,21)
C 1003 (B,106,25)
C 1004 (B,109,38)

CKSSYB104K10
CKSSYB102K50
CEVLW470M6R3
CKSSYB103K16
CKSSYB103K16

C 446 (A,34,71)
C 447 (B,31,63)
C 448 (B,28,64)
C 501 (A,113,24)
C 502 (A,123,32)

CKSRYB104K50
CKSSYB103K16
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

C 1006 (A,163,85) 1 500 uF/16 V
C 1007 (A,160,94)
C 1031 (B,119,36) 10 uF
C 1032 (A,113,19)
C 1033 (A,121,17)

CCH1312
CKSRYB104K50
CCG1171
CKSRYB105K16
CKSRYB105K16

C 503 (B,100,32)
C 504 (A,96,32)
C 505 (A,93,34)
C 506 (A,96,35)
C 507 (A,123,37)

CKSSYB104K10
CKSSYB104K10
CEVLW220M6R3
CKSSYB104K10
CKSSYB104K10

C 1051 (A,26,40)
C 1052 (A,26,47)
C 1071 (B,32,67)
C 1072 (B,21,81)
C 1073 (A,14,89) 2 200 uF/16 V

CEVLW470M16
CEVLW470M16
CKSRYB104K50
CKSYB475K16
CCH1659(P35)

C 508 (A,95,41)
C 509 (B,100,42)
C 511 (A,123,45)
C 512 (B,112,49)
C 513 (B,103,42)

CKSSYB104K10
CKSQYB475K6R3
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

C 1101 (B,140,70)
C 1102 (A,136,64)
C 1103 (B,139,72)
C 1151 (A,41,88)
C 1152 (A,43,94)

CKSSYB103K25
CEVLW470M16
CKSQYB105K16
CEVLW100M16
CKSRYB104K50

C 514 (A,113,51)
C 515 (A,119,52)
C 516 (A,120,50)
C 517 (B,116,50)
C 519 (B,102,55)

CKSSYB104K10
CCSSCK1R0C50
CCSSCK1R0C50
CKSSYB104K10
CKSSYB182K50

C 1201 (B,149,66)
C 1203 (B,150,65)
C 1204 (B,152,62)
C 1205 (A,155,64)
C 1206 (B,159,64)

CKSSYB103K16
CKSQYB105K16
CKSSYB104K10
CCSSCH150J50
CKSQYB475K6R3

C 520 (B,101,54)
C 521 (B,100,36)
C 522 (B,99,34)
C 523 (A,95,39)
C 550 (A,62,16)

CKSSYB182K50
CKSSYB105K6R3
CKSSYB105K6R3
CKSSYB104K10
CKSSYB104K10

C 1207 (B,163,64)
C 1208 (A,162,64)
C 1251 (B,93,105)
C 1252 (A,94,106)
C 1253 (B,93,104)

CKSQYB475K6R3
CKSSYB104K10
CKSSYB103K16
CEVLW100M16
CKSSYB103K16

C 551 (A,48,11)
C 553 (A,128,45)
C 554 (A,130,48)
C 601 (B,62,25)
C 603 (A,57,38) 10 uF

CEVLW220M6R3
CKSSYB104K10
CKSSYB104K10
CKSRYB105K16
CCG1171

C 1301 (A,64,76) 10 uF
C 1402 (B,144,21)
C 1403 (B,144,39)
C 1404 (A,131,24) 220 uF/10 V
C 1405 (A,126,24) 220 uF/10 V

CCG1223
CCSRCH101J50
CKSRYB222K50
CCH1409
CCH1409

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<u>Circuit Symbol and No.</u>			<u>Part No.</u>			<u>Circuit Symbol and No.</u>			<u>Part No.</u>		
C 1406	(A,134,35)	470 uF/6.3 V	CCH1437			L 3005	(B,124,15)	Inductor	CTF1389		
C 1409	(A,146,26)		CKSQYB475K6R3			S 3001	(A,143,13)	Switch	CSN1057		
C 1410	(A,145,32)		CCSRCH101J50			S 3002	(A,66,5)	Push Switch	CSG1155		
C 1412	(B,151,37)		CKSRYB683K16			S 3003	(A,13,11)	Rotary Switch	CSD1151		A
C 1413	(B,156,27)		CKSRYB104K50			S 3004	(A,36,11)	Push Switch	CSG1155		
						S 3005	(A,82,5)	Push Switch	CSG1155		
C 1414	(A,151,26)		CKSSYB104K16								
C 1415	(A,152,32)		CKSSYB104K16			S 3006	(A,96,5)	Push Switch	CSG1155		
C 1416	(A,157,27)		CEVLW470M16			S 3007	(A,142,5)	Push Switch	CSG1155		
C 1417	(B,158,29)		CKSYB475K16			S 3008	(A,128,5)	Push Switch	CSG1155		
C 1418	(B,162,25)		CKSYB475K16			S 3009	(A,114,5)	Push Switch	CSG1155		
						RESISTORS					
C 1419	(A,167,38)	2 200 uF/16V	CCH1659			R 3001	(B,139,14)		RS1/16S223J		
C 1420	(A,129,35)	470 uF/6.3 V	CCH1437			R 3002	(A,37,6)		RS1/16S182J		
C 1421	(A,164,9)		CKSSYB103K16			R 3003	(A,37,4)		RS1/16S392J		B
C 1422	(A,163,9)		CKSSYB102K50			R 3004	(A,128,14)		RS1/16S222J		
C 1521	(B,142,14)		CKSSYB104K16			R 3005	(A,119,9)		RS1/16S103J		
C 1541	(B,135,13)		CKSSYB104K16			R 3006	(B,145,18)		RS1/16S223J		
C 1601	(A,114,12)		CEVLW101M10			R 3007	(A,5,11)		RS1/16S221J		
C 1602	(B,123,11)		CKSSYB102K50			R 3008	(B,27,15)		RS1/16S221J		
C 1603	(B,123,14)		CKSRYB105K16			R 3009	(A,87,15)		RS1/16S221J		
C 1701	(A,7,23)		CEAT332M6R3			R 3010	(A,96,9)		RS1/16S221J		
						R 3011	(B,141,4)		RS1/16S470J		
						R 3012	(B,107,8)		RS1/16S331J		
						R 3013	(A,84,8)		RS1/16S103J		C
						R 3014	(B,27,17)		RS1/16S471J		
						R 3015	(A,27,14)		RS1/16S471J		
						R 3016	(B,63,6)		RS1/16S471J		
						R 3017	(A,103,6)		RS1/16S471J		
						R 3018	(A,136,8)		RS1/16S471J		
						R 3019	(A,47,11)		RS1/16S681J		
						R 3020	(A,128,8)		RS1/16S221J		
						R 3021	(B,37,15)		RS1/16S331J		
						R 3022	(B,37,14)		RS1/16S331J		
						R 3023	(B,140,11)		RS1/16S750J		
						R 3024	(A,5,14)		RS1/16S221J		D
						R 3025	(B,31,14)		RS1/16S221J		
						R 3026	(A,87,12)		RS1/16S221J		
						R 3027	(A,96,13)		RS1/16S221J		
						R 3028	(A,128,11)		RS1/16S221J		
						R 3029	(B,31,15)		RS1/16S271J		
						R 3030	(A,30,14)		RS1/16S271J		
						R 3031	(B,68,6)		RS1/16S271J		
						R 3032	(A,101,6)		RS1/16S271J		
						R 3033	(A,136,9)		RS1/16S271J		
						R 3034	(A,45,11)		RS1/16S102J		E
						CAPACITORS					
						C 3006	(A,77,9)		CKSRYB104K50		
						C 3007	(A,92,9)		CKSRYB104K50		
						C 3009	(A,123,8)		CKSRYB104K50		
						C 3010	(A,132,13)		CKSRYB104K50		
						C 3011	(B,137,4)		CKSRYB102K50		
						C 3012	(B,162,5)		CSZSR470M10		
						Monitor Unit					F
						Consists of					
						Monitor PCB					
L 3001	(B,128,14)	Inductor	CTF1389								
L 3002	(B,128,12)	Inductor	CTF1389								
L 3003	(B,129,9)	Inductor	CTF1389								
L 3004	(B,124,13)	Inductor	CTF1389								



Unit Number :

Unit Name : Keyboard Unit

MISCELLANEOUS

IC 3001	(A,161,7)	IC	GP1UX31RK		
D 3000	(B,140,14)	Diode	MALS068X		
D 3001	(B,149,14)	Diode	MALS068X		
D 3002	(B,150,12)	Diode	MALS068X		
D 3003	(B,145,15)	Diode	MALS068X		
D 3004	(B,139,18)	Diode	MALS068X		
D 3005	(B,136,7)	Diode	UDZS5R6(B)		
D 3006	(A,6,18)	LED	SMLE12BC7T(NP)		
D 3007	(A,6,5)	LED	SMLE12BC7T(NP)		
D 3008	(A,20,18)	LED	SMLE12BC7T(NP)		
D 3009	(A,20,5)	LED	SMLE12BC7T(NP)		
D 3010	(A,84,15)	LED	SMLE12BC7T(NP)		
D 3011	(A,77,5)	LED	SMLE12BC7T(NP)		
D 3012	(A,91,5)	LED	SMLE12BC7T(NP)		
D 3013	(A,108,5)	LED	SMLE12BC7T(NP)		
D 3014	(A,122,5)	LED	SMLE12BC7T(NP)		
D 3015	(A,136,5)	LED	SMLE12BC7T(NP)		
D 3016	(A,42,11)	LED	SMLE12BC7T(NP)		
D 3017	(A,7,17)	LED	CL-195SR-CD		
D 3018	(A,7,6)	LED	CL-195SR-CD		
D 3019	(A,19,6)	LED	CL-195SR-CD		
D 3020	(A,19,17)	LED	CL-195SR-CD		
D 3021	(A,78,5)	LED	CL-195SR-CD		
D 3022	(A,85,15)	LED	CL-195SR-CD		
D 3023	(A,110,5)	LED	CL-195SR-CD		
D 3024	(A,92,5)	LED	CL-195SR-CD		
D 3025	(A,137,5)	LED	CL-195SR-CD		
D 3026	(A,124,5)	LED	CL-195SR-CD		
D 3027	(A,40,11)	LED	CL-195SR-CD		
D 3028	(A,100,12)	LED	CL-195SR-CD		
L 3001	(B,128,14)	Inductor	CTF1389		
L 3002	(B,128,12)	Inductor	CTF1389		
L 3003	(B,129,9)	Inductor	CTF1389		
L 3004	(B,124,13)	Inductor	CTF1389		

Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.****Inverter PCB****Unit Number : CWN3138****Unit Name : Monitor Unit****MISCELLANEOUS**

D 5109	(A,67,27) Diode	RB548W
D 5201	(A,19,14) Diode	UDZS6R2(B)
D 5202	(A,19,2) Diode	1SS355
D 5203	(A,40,14) Diode	RB751V-40
D 5204	(B,17,14) Diode	HZU6R2(B3)
D 5205	(B,27,11) Diode	HZU6R2(B3)
D 5206	(B,14,11) Diode	UDZS8R2(B)
D 5207	(A,45,4) Diode	MA143
D 5208	(A,70,3) Diode	HZU6R2(B3)
D 5209	(A,75,4) Diode	MA143
D 5601	(A,125,22) Diode	1SS355
D 5701	(A,104,28) Diode	MA111
L 5001	(A,69,14) Coil	CTH1338
L 5101	(A,57,68) Inductor	CTF1635
L 5102	(A,90,58) Choke Coil 10 uH	CTH1249
L 5103	(A,82,50) Choke Coil 18 uH	CTH1250
L 5104	(A,75,18) Inductor	CTF1488
L 5105	(A,88,29) Choke Coil 68 uH	CTH1318
L 5107	(A,83,26) Inductor	DTL1096
L 5108	(A,12,65) Inductor	CTF1635
L 5109	(A,59,74) Inductor	CTF1635
L 5110	(A,59,51) Inductor	CTF1635
L 5111	(A,59,53) Inductor	CTF1635
L 5112	(A,62,65) Inductor	CTF1635
L 5113	(A,83,61) Choke Coil 18 uH	CTH1250
L 5114	(A,64,48) Inductor	CTF1635
L 5115	(A,86,23) Inductor	CTF1635
L 5116	(A,62,27) Inductor	CTF1635
L 5304	(A,80,67) Inductor	CTF1379
L 5401	(A,53,74) Inductor	CTF1306
L 5402	(A,44,76) Inductor	CTF1306
L 5403	(A,43,76) Inductor	CTF1306
L 5404	(A,34,77) Inductor	CTF1306
L 5405	(A,23,72) Inductor	CTF1306
L 5406	(A,34,75) Inductor	CTF1306
L 5407	(A,25,73) Inductor	CTF1306
L 5408	(A,36,76) Inductor	CTF1306
L 5409	(A,55,69) Inductor	CTF1306
L 5411	(A,53,73) Inductor	CTF1306
L 5412	(A,55,66) Inductor	CTF1306
L 5413	(A,19,67) Inductor	CTF1306
L 5414	(A,22,66) Inductor	CTF1306
L 5415	(A,22,65) Inductor	CTF1306
L 5416	(A,19,64) Inductor	CTF1306
L 5417	(A,19,63) Inductor	CTF1306
L 5418	(A,55,63) Inductor	CTF1306
L 5419	(A,21,62) Inductor	CTF1306
L 5420	(A,55,60) Inductor	CTF1306
L 5421	(A,17,61) Inductor	CTF1306
L 5422	(A,18,60) Inductor	CTF1306
L 5423	(A,17,58) Inductor	CTF1306
L 5424	(A,17,57) Inductor	CTF1306
L 5425	(A,55,57) Inductor	CTF1306
L 5426	(A,20,56) Inductor	CTF1306
L 5427	(A,20,55) Inductor	CTF1306
L 5428	(A,55,55) Inductor	CTF1306
L 5429	(A,20,53) Inductor	CTF1306
L 5430	(A,20,52) Inductor	CTF1306
L 5431	(A,55,52) Inductor	CTF1306
L 5432	(A,55,49) Inductor	CTF1306

IC 5101	(A,64,56) Regulator IC	S-1132B15-U5
IC 5102	(A,63,62) IC	S-1132B25-U5
IC 5103	(A,72,39) IC	BD6171KV
IC 5201	(A,8,15) IC	TA78L05F
IC 5203	(A,39,16) L-MOS And Gate	TC7SET08FUS1
IC 5204	(A,33,7) IC	OZ961ISN
IC 5301	(A,79,71) IC	NJM2505AF
IC 5401	(A,39,56) IC	TC90A96BFGSING
IC 5501	(A,57,21) IC	M62343FP
IC 5502	(A,11,47) IC	TC7SET04FUS1
IC 5503	(A,15,51) IC	NJM2100V
IC 5504	(A,57,46) IC	TC7SET04FUS1
IC 5505	(A,16,40) IC	TC7S66FU
IC 5506	(A,56,39) IC	TC74VHC04FTS1
IC 5507	(A,11,33) IC	NJM082BV
IC 5603	(A,118,35) IC	PE5634A
IC 5604	(A,135,36) IC	S-93C56BD0I-J8
IC 5801	(A,128,61) IC	PEH172A
IC 5802	(A,108,63) IC	PDC169B
Q 5102	(A,83,44) FET	RSQ035P03
Q 5103	(A,83,36) FET	RSQ035P03
Q 5201	(B,42,14) Transistor	UMX2N
Q 5202	(A,21,11) Transistor	2SC4617
Q 5203	(A,23,11) Transistor	2SC4617
Q 5204	(A,23,3) Transistor	2SA1774
Q 5205	(B,14,6) Transistor	2SC4617
Q 5206	(B,18,3) Transistor	2SC4617
Q 5207	(B,22,8) FET	TS8M1
Q 5208	(B,29,6) FET	TS8M1
Q 5401	(A,40,76) Transistor	2SC4617
Q 5501	(A,7,26) Transistor	UMX2N
Q 5502	(A,12,24) Transistor	UMT2N
Q 5607	(A,130,11) Chip Transistor	DTC114EUA
Q 5608	(A,127,16) Transistor	2SA1797
Q 5701	(A,102,21) Transistor	UMF5N
Q 5702	(A,99,21) Transistor	UMF5N
Q 5703	(A,100,29) Transistor	FMG12
Q 5801	(A,97,62) Transistor	2SA1774
Q 5802	(A,98,55) Transistor	UMT1N
D 5001	(A,107,24) Diode	UDZS5R6(B)
D 5002	(A,103,16) Diode	UDZS5R6(B)
D 5003	(A,105,20) Diode	UDZS5R6(B)
D 5004	(A,105,22) Diode	UDZS5R6(B)
D 5101	(A,71,64) Diode	RB500V-40
D 5102	(A,70,64) Diode	RB500V-40
D 5103	(A,88,47) Diode	U2FWJ44N
D 5104	(A,87,34) Diode	RB160M-30
D 5105	(A,82,30) Diode	RB548W
D 5106	(A,80,30) Diode	RB548W
D 5107	(A,71,27) Diode	RB548W
D 5108	(A,69,27) Diode	RB548W

5				6				7				8			
<u>Circuit Symbol and No.</u>				<u>Part No.</u>				<u>Circuit Symbol and No.</u>				<u>Part No.</u>			
L 5433	(A,20,51)	Inductor		CTF1306				TH5601	(A,122,22)	Thermistor		CCX1051			
L 5434	(A,21,48)	Inductor		CTF1306				X 5401	(A,48,75)	Crystal Resonator 42 MHz		CSS1604			
L 5435	(A,21,47)	Inductor		CTF1306				X 5601	(A,117,25)	Ceramic Resonator 5.00 MHz		CSS1731			
L 5436	(A,21,45)	Inductor		CTF1306				VR5201	(A,44,8)	Semi-fixed 22 kohm(B)		CCP1450			A
L 5437	(A,55,46)	Inductor		CTF1306				KN5401	(B,38,59)	Terminal		CKF1068			
L 5438	(A,19,44)	Inductor		CTF1306				TP5601	(A,135,26)	Checker Chip		CKF1031			
L 5439	(A,46,39)	Ferrite Bead		CTF1528				RESISTORS							
L 5440	(A,46,41)	Ferrite Bead		CTF1528				R 5101	(A,67,58)			RS1/16SS684J			
L 5441	(A,45,39)	Ferrite Bead		CTF1528				R 5102	(A,67,62)			RS1/16SS474J			
L 5442	(A,45,41)	Ferrite Bead		CTF1528				R 5103	(A,70,53)			RS1/16SS0R0J			
L 5443	(A,44,41)	Ferrite Bead		CTF1528				R 5104	(A,71,53)			RS1/16S6801D			
L 5444	(A,43,39)	Ferrite Bead		CTF1528				R 5105	(A,87,54)			RS1/16S0R0J			
L 5445	(A,42,38)	Inductor		CTF1306				R 5106	(A,77,52)			RS1/16SS0R0J			B
L 5446	(A,39,41)	Ferrite Bead		CTF1528				R 5107	(A,73,52)			RS1/16SS201J			
L 5447	(A,38,40)	Ferrite Bead		CTF1528				R 5108	(A,75,53)			RS1/16S1001D			
L 5448	(A,38,38)	Ferrite Bead		CTF1528				R 5109	(A,68,51)			RS1/16S1001D			
L 5449	(A,37,40)	Ferrite Bead		CTF1528				R 5110	(A,71,51)			RS1/16SS682J			
L 5450	(A,37,38)	Ferrite Bead		CTF1528				R 5111	(A,65,45)			RS1/16S5100F			
L 5451	(A,36,40)	Ferrite Bead		CTF1528				R 5112	(A,75,51)			RS1/16S1600D			
L 5452	(A,35,38)	Inductor		CTF1306				R 5113	(A,75,48)			RS1/16SS102J			
L 5453	(A,33,39)	Ferrite Bead		CTF1528				R 5114	(A,68,46)			RS1/16S0R0J			
L 5454	(A,34,41)	Ferrite Bead		CTF1528				R 5115	(A,77,50)			RS1/16S2700D			
L 5455	(A,33,36)	Ferrite Bead		CTF1528				R 5116	(A,65,46)			RS1/16S2001D			
L 5456	(A,32,38)	Ferrite Bead		CTF1528				R 5117	(A,71,49)			RS1/16SS684J			C
L 5457	(A,32,40)	Ferrite Bead		CTF1528				R 5118	(A,75,47)			RS1/16SS333J			
L 5458	(A,31,37)	Ferrite Bead		CTF1528				R 5119	(A,72,47)			RS1/16SS123J			
L 5459	(A,26,39)	Ferrite Bead		CTF1528				R 5120	(A,80,44)			RS1/16SS273J			
L 5460	(A,26,41)	Ferrite Bead		CTF1528				R 5121	(A,81,46)			RS1/16SS150J			
L 5461	(A,25,41)	Ferrite Bead		CTF1528				R 5122	(A,85,36)			RS1/16SS150J			
L 5462	(A,22,39)	Ferrite Bead		CTF1528				R 5123	(A,80,39)			RS1/16SS563J			
L 5463	(A,23,40)	Ferrite Bead		CTF1528				R 5124	(A,74,32)			RS1/16S6202D			
L 5464	(A,23,42)	Ferrite Bead		CTF1528				R 5125	(A,67,32)			RS1/16S0R0J			
L 5465	(A,23,43)	Ferrite Bead		CTF1528				R 5126	(A,66,34)			RS1/16S1002D			
L 5466	(A,47,38)	Inductor		CTF1306				R 5127	(A,74,30)			RS1/16S4300D			D
L 5467	(A,30,38)	Inductor		CTF1306				R 5128	(A,64,33)			RS1/16S1802D			
L 5468	(A,28,38)	Inductor		CTF1306				R 5129	(A,76,32)			RS1/16S1802D			
L 5469	(A,49,37)	Inductor		CTF1306				R 5130	(A,64,30)			RS1/16S2202D			
L 5470	(A,41,38)	Inductor		CTF1306				R 5131	(A,64,27)			RS1/16SS0R0J			
L 5471	(A,39,38)	Inductor		CTF1306				R 5132	(A,77,29)			RS1/16S3303D			
L 5472	(A,17,44)	Inductor		LCTAW101J2520				R 5133	(A,79,34)			RS1/16S0R0J			
L 5501	(A,13,44)	Inductor		CTF1306				R 5134	(A,77,27)			RS1/16SS0R0J			
L 5502	(A,9,55)	Inductor		LCTAW101J2520				R 5137	(A,65,41)			RS1/16SS0R0J			
L 5503	(A,8,43)	Inductor		LCTAW101J2520				R 5138	(A,64,39)			RS1/16SS0R0J			
L 5504	(A,52,26)	Inductor		CTF1306				R 5141	(A,83,22)			RS1/16SS223J			
L 5505	(A,21,35)	Inductor		DTL1096				R 5202	(A,18,13)			RS1/16SS103J			
L 5506	(A,15,31)	Inductor		DTL1096				R 5203	(A,21,13)			RS1/16SS104J			E
L 5508	(A,51,35)	Inductor		CTF1306				R 5205	(A,19,11)			RS1/16SS473J			
L 5509	(A,27,35)	Inductor		CTF1635				R 5206	(A,21,2)			RS1/16SS472J			
L 5510	(A,19,35)	Inductor		CTF1635				R 5207	(A,22,9)			RS1/16SS105J			
L 5511	(A,60,43)	Inductor		CTF1635				R 5208	(A,23,5)			RS1/16SS473J			
L 5601	(A,112,24)	Inductor		CTF1306				R 5209	(A,25,3)			RS1/16SS333J			
L 5602	(A,98,34)	Inductor		CTF1306				R 5210	(A,26,3)			RS1/16SS513J			
L 5603	(A,136,30)	Inductor		CTF1306				R 5211	(A,36,17)			RS1/16SS103J			
L 5605	(A,123,8)	Inductor		CTF1488				R 5212	(A,30,16)			RS1/16SS105J			
L 5701	(A,100,17)	Inductor		CTF1379				R 5213	(A,43,15)			RS1/16SS102J			
L 5801	(A,104,45)	Inductor		LCTAW2R2J2520				R 5214	(A,40,8)			RS1/16S5102D			F
L 5802	(A,110,47)	Inductor		CTF1382				R 5215	(B,17,16)			RS1/16SS103J			
L 5803	(A,94,68)	Inductor		LCTAW2R2J2520				R 5216	(B,26,9)			RS1/16SS103J			
L 5804	(A,132,46)	Inductor		CTF1382											
T 5201	(B,52,8)	Transformer		CTT1119											

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Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

R 5217 (B,16,9)
 R 5218 (B,16,3)
 R 5219 (B,15,9)
 R 5220 (B,13,8)

RS1/16SS103J
 RS1/16SS621J
 RS1/16SS104J
 RS1/16SS473J

R 5522 (A,52,33)
 R 5523 (A,51,33)
 R 5524 (A,8,31)
 R 5525 (A,10,28)

RS1/16S82R0F
 RS1/16S12R0F
 RS1/16S5602D
 RS1/16SS101J

R 5221 (B,39,14)
 R 5222 (B,41,16)
 R 5223 (B,41,17)
 R 5224 (B,39,13)
 R 5225 (A,69,2)

RS1/16SS621J
 RS1/16SS101J
 RS1/16SS101J
 RS1/16SS821J
 RS1/16SS471J

R 5526 (A,7,23)
 R 5527 (A,13,21)
 R 5528 (A,10,23)
 R 5529 (A,12,21)
 R 5530 (A,31,31)

RS1/16SS153J
 RS1/16SS153J
 RS1/16SS0R0J
 RS1/16SS0R0J
 RS1/16SS102J

R 5227 (A,38,8)
 R 5311 (A,87,67)
 R 5312 (A,87,68)
 R 5315 (A,63,74)
 R 5316 (A,77,75)

RS1/16S1001D
 RS1/16SS101J
 RS1/16SS101J
 RS1/16S0R0J
 RS1/16SS0R0J

R 5531 (A,7,29)
 R 5532 (A,10,25)
 R 5533 (A,9,23)
 R 5534 (A,11,21)
 R 5601 (A,121,22)

RS1/16SS100J
 RS1/16SS100J
 RS1/16SS0R0J
 RS1/16SS0R0J
 RS1/16SS473J

R 5401 (A,45,72)
 R 5402 (A,15,60)
 R 5403 (A,46,71)
 R 5404 (A,41,74)
 R 5405 (A,38,75)

RS1/16SS391J
 RS1/16SS222J
 RS1/16SS105J
 RS1/16SS331J
 RS1/16SS152J

R 5605 (A,120,24)
 R 5606 (A,119,21)
 R 5607 (A,127,23)
 R 5608 (A,129,30)
 R 5610 (A,130,29)

RS1/16SS471J
 RS1/16SS473J
 RS1/16SS104J
 RS1/16SS473J
 RS1/16SS473J

R 5406 (A,23,69)
 R 5407 (A,20,66)
 R 5408 (A,16,64)
 R 5410 (A,16,63)
 R 5411 (A,15,58)

RS1/16SS0R0J
 RS1/16SS331J
 RS1/16SS101J
 RS1/16SS101J
 RS1/16SS470J

R 5611 (A,131,29)
 R 5612 (A,129,41)
 R 5614 (A,127,43)
 R 5615 (A,128,42)
 R 5616 (A,119,46)

RS1/16SS473J
 RS1/16SS471J
 RS1/16SS471J
 RS1/16SS471J
 RS1/16SS471J

R 5412 (A,15,57)
 R 5413 (A,18,54)
 R 5414 (A,18,56)
 R 5416 (A,16,56)
 R 5417 (A,23,56)

RS1/16SS470J
 RS1/16SS471J
 RS1/16SS333J
 RS1/16SS152J
 RS1/16SS473J

R 5617 (A,118,46)
 R 5618 (A,129,31)
 R 5619 (A,129,36)
 R 5620 (A,129,26)
 R 5621 (A,126,26)

RS1/16SS471J
 RS1/16SS471J
 RS1/16SS471J
 RS1/16SS471J
 RS1/16SS470J

R 5418 (A,44,36)
 R 5419 (A,39,34)
 R 5420 (A,35,34)
 R 5421 (A,20,41)
 R 5422 (A,48,35)

RAB4CQ221J
 RAB4CQ221J
 RAB4CQ221J
 RAB4CQ221J
 RS1/16SS221J

R 5622 (A,129,32)
 R 5623 (A,126,25)
 R 5624 (A,98,24)
 R 5625 (A,104,25)
 R 5626 (A,129,34)

RS1/16SS471J
 RS1/16SS470J
 RS1/16SS105J
 RS1/16SS105J
 RS1/16SS471J

R 5423 (A,46,35)
 R 5424 (A,37,36)
 R 5425 (A,36,36)
 R 5426 (A,32,36)
 R 5427 (A,31,35)

RS1/16SS221J
 RS1/16SS221J
 RS1/16SS221J
 RS1/16SS221J
 RS1/16SS221J

R 5627 (A,129,35)
 R 5628 (A,132,32)
 R 5629 (A,129,37)
 R 5630 (A,124,22)
 R 5631 (A,127,27)

RS1/16SS471J
 RS1/16SS473J
 RS1/16SS221J
 RS1/16SS153J
 RS1/16SS473J

R 5428 (A,30,35)
 R 5429 (A,25,38)
 R 5430 (A,24,39)
 R 5501 (A,63,20)
 R 5503 (A,14,46)

RS1/16SS221J
 RS1/16SS221J
 RS1/16SS221J
 RAB4CQ221J
 RS1/16SS101J

R 5632 (A,135,29)
 R 5633 (A,117,46)
 R 5634 (A,115,46)
 R 5635 (A,133,29)
 R 5636 (A,138,34)

RS1/16SS473J
 RS1/16SS473J
 RS1/16SS473J
 RS1/16SS473J
 RS1/16SS473J

R 5504 (A,18,40)
 R 5506 (A,17,50)
 R 5507 (A,16,38)
 R 5508 (A,8,33)
 R 5509 (A,55,28)

RS1/16SS681J
 RS1/16SS101J
 RS1/16SS472J
 RS1/16S3302D
 RS1/16S6800D

R 5637 (A,137,41)
 R 5638 (A,131,36)
 R 5639 (A,106,39)
 R 5640 (A,106,35)
 R 5642 (A,107,42)

RS1/16SS103J
 RS1/16SS103J
 RS1/16SS471J
 RS1/16SS102J
 RS1/16SS104J

R 5510 (A,11,28)
 R 5512 (A,51,28)
 R 5513 (A,52,28)
 R 5514 (A,54,28)
 R 5515 (A,57,28)

RS1/16SS223J
 RS1/16S27R0D
 RS1/16S10R0D
 RS1/16S1000D
 RS1/16S82R0F

R 5643 (A,116,46)
 R 5644 (A,103,41)
 R 5646 (A,99,37)
 R 5647 (A,126,12)
 R 5648 (A,127,10)

RS1/16SS473J
 RS1/16SS103J
 RS1/16SS473J
 RS1/16SS103J
 RS1/16SS821J

R 5516 (A,58,30)
 R 5517 (A,59,33)
 R 5518 (A,58,33)
 R 5519 (A,56,33)
 R 5520 (A,55,33)

RS1/16S56R0D
 RS1/16S47R0D
 RS1/16S36R0D
 RS1/16S33R0D
 RS1/16S27R0D

R 5657 (A,129,38)
 R 5658 (A,129,39)
 R 5660 (A,129,40)
 R 5701 (A,97,30)
 R 5702 (A,102,24)

RS1/16SS221J
 RS1/16SS221J
 RS1/16SS221J
 RS1/16SS0R0J
 RS1/16SS0R0J

R 5521 (A,53,33)

RS1/16S1800D

R 5703 (A,102,19)

RS1/16SS103J

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5	6	7	8
<u>Circuit Symbol and No.</u>	<u>Part No.</u>	<u>Circuit Symbol and No.</u>	<u>Part No.</u>
R 5704 (A,99,19)	RS1/16SS103J	R 5856 (A,114,72)	RS1/16SS0R0J
R 5705 (A,102,18)	RS1/16SS103J	R 5857 (A,136,46)	RS1/16SS101J
R 5706 (A,98,18)	RS1/16SS103J	R 5858 (A,137,46)	RS1/16SS101J
R 5707 (A,100,24)	RS1/16SS105J	R 5865 (A,122,47)	RS1/16SS101J
R 5708 (A,96,21)	RS1/16SS105J	R 5866 (A,123,46)	RS1/16SS101J
R 5709 (A,102,27)	RS1/16SS102J	R 5867 (A,125,46)	RS1/16SS101J
R 5710 (A,98,26)	RS1/16SS102J	R 5868 (A,128,46)	RS1/16SS101J
R 5801 (A,118,70)	RS1/16SS101J	R 5869 (A,127,46)	RS1/16SS101J
R 5802 (A,118,69)	RS1/16SS101J	R 5870 (A,126,46)	RS1/16SS101J
R 5803 (A,118,68)	RS1/16SS101J	CAPACITORS	
R 5804 (A,118,67)	RS1/16SS101J	C 5001 (A,107,25)	CKSSYB102K50
R 5805 (A,98,60)	RS1/16SS102J	C 5002 (A,104,15)	CKSSYB102K50
R 5806 (A,99,59)	RS1/16SS102J	C 5003 (A,104,18)	CKSSYB102K50
R 5807 (A,97,59)	RS1/16SS102J	C 5004 (A,108,23)	CKSSYB102K50
R 5808 (A,113,72)	RS1/16SS473J	C 5005 (A,67,7) 10 uF	CCG1223
R 5809 (A,118,66)	RS1/16SS101J	C 5006 (A,70,7) 10 uF	CCG1223
R 5810 (A,118,65)	RS1/16SS101J	C 5016 (A,7,79)	CKSSYB104K10
R 5811 (A,107,72)	RS1/16SS471J	C 5017 (A,7,78)	CKSSYB103K16
R 5812 (A,104,72)	RS1/16SS473J	C 5018 (A,137,72)	CKSSYB104K10
R 5813 (A,136,50)	RS1/16SS101J	C 5019 (A,138,72)	CKSSYB103K16
R 5814 (A,118,64)	RS1/16SS101J	C 5101 (A,55,76)	CKSRYB105K16
R 5815 (A,138,46)	RS1/16SS473J	C 5102 (A,15,70)	CSZS100M10
R 5816 (A,135,46)	RS1/16SS101J	C 5103 (A,57,74)	CKSRYB105K16
R 5817 (A,118,63)	RS1/16SS101J	C 5104 (A,80,54)	CKSSYB104K10
R 5818 (A,97,50)	RS1/16S1500D	C 5105 (A,59,49)	CSZS100M16
R 5819 (A,97,47)	RS1/16S0R0J	C 5106 (A,59,58)	CSZSR220M10
R 5820 (A,119,61)	RS1/16SS101J	C 5107 (A,81,56)	CSZSR330M10
R 5821 (A,134,46)	RS1/16SS101J	C 5108 (A,58,63)	CSZSR220M10
R 5822 (A,98,50)	RS1/16S1500D	C 5109 (A,63,52) 10 uF	CCG1171
R 5823 (A,98,47)	RS1/16S0R0J	C 5110 (A,62,51)	CKSSYB104K10
R 5824 (A,118,60)	RS1/16SS101J	C 5111 (A,65,65) 10 uF	CCG1171
R 5825 (A,131,75)	RS1/16SS473J	C 5112 (A,67,67)	CKSSYB104K10
R 5826 (A,100,50)	RS1/16S1500D	C 5113 (A,68,56)	CKSSYB104K10
R 5827 (A,100,47)	RS1/16S0R0J	C 5114 (A,68,60)	CKSRYB105K16
R 5828 (A,130,75)	RS1/16SS473J	C 5115 (A,67,61)	CKSSYB104K10
R 5829 (A,129,46)	RS1/16SS101J	C 5116 (A,68,63)	CKSRYB105K16
R 5830 (A,118,59)	RS1/16SS101J	C 5117 (A,91,52)	CSZS100M16
R 5831 (A,129,75)	RS1/16SS473J	C 5118 (A,93,53)	CKSRYB105K16
R 5832 (A,118,58)	RS1/16SS101J	C 5119 (A,65,50)	CKSSYB104K10
R 5833 (A,99,67)	RS1/16SS680J	C 5120 (A,13,70)	CSZS100M10
R 5834 (A,119,49)	RS1/16SS101J	C 5121 (A,70,51)	CKSRYB473K50
R 5835 (A,118,57)	RS1/16SS101J	C 5122 (A,88,52) 68 uF/6.3 V	CCH1440
R 5836 (A,118,56)	RS1/16SS101J	C 5123 (A,75,50)	CCSRCH331J50
R 5837 (A,115,50)	RS1/16SS0R0J	C 5124 (A,88,49)	CKSRYB104K50
R 5838 (A,118,55)	RS1/16SS101J	C 5125 (A,68,48)	CKSRYB104K50
R 5839 (A,100,44)	RS1/16S1501D	C 5126 (A,67,49)	CSZS100M16
R 5840 (A,115,51)	RS1/16SS0R0J	C 5127 (A,73,50)	CKSRYB103K50
R 5841 (A,118,51)	RS1/16SS101J	C 5128 (A,76,47)	CCSSCH101J50
R 5842 (A,114,53)	RS1/16SS101J	C 5130 (A,77,47)	CKSRYB103K50
R 5843 (A,118,54)	RS1/16SS101J	C 5131 (A,73,47)	CKSRYB393K50
R 5844 (A,112,72)	RS1/16SS101J	C 5132 (A,70,48)	CKSRYB393K50
R 5845 (A,111,72)	RS1/16SS101J	C 5133 (A,92,42)	CKSRYB103K50
R 5846 (A,113,53)	RS1/16SS470J	C 5134 (A,79,45)	CKSRYB104K50
R 5847 (A,112,53)	RS1/16SS470J	C 5135 (A,86,43) 10 uF	CCG1223
R 5848 (A,115,53)	RS1/16SS101J	C 5136 (A,65,42)	CKSRYB393K50
R 5849 (A,110,72)	RS1/16SS101J	C 5137 (A,90,43) 10 uF	CCG1223
R 5850 (A,112,73)	RS1/16SS473J	C 5138 (A,75,20)	CKSRYB224K16
R 5851 (A,100,72)	RS1/16SS0R0J	C 5139 (A,79,42)	CKSRYB105K16
R 5852 (A,110,74)	RS1/16SS103J	C 5140 (A,79,41)	CKSSYB102K50
R 5853 (A,99,70)	RS1/16SS0R0J		

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Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

C 5141 (A,89,37) 10 uF

CCG1223

C 5411 (A,51,74)

CKSSYB104K10

C 5143 (A,86,37)

CKSRYB103K50

C 5412 (A,43,72)

CKSSYB104K10

C 5144 (A,63,38)

CKSSYB102K50

C 5413 (A,42,75)

CKSSYB103K16

C 5145 (A,79,39)

CKSRYB104K50

C 5414 (A,42,72)

CCSSCH181J25

C 5146 (A,64,34)

CKSRYB105K16

C 5415 (A,41,72)

CKSSYB104K10

C 5147 (A,80,36)

CKSRYB105K16

C 5416 (A,40,72)

CKSSYB104K10

C 5148 (A,79,36)

CKSRYB103K50

C 5417 (A,28,75)

CKSSYB104K10

C 5149 (A,70,32)

CKSRYB104K50

C 5418 (A,27,75)

CKSSYB104K10

C 5150 (A,76,25)

CKSYB475K16

C 5419 (A,38,73)

CKSSYB104K10

C 5151 (A,80,32)

CKSRYB472K50

C 5420 (A,37,72)

CKSSYB104K10

C 5152 (A,78,32)

CKSRYB472K50

C 5421 (A,26,75)

CKSSYB104K10

C 5153 (A,93,27)

CKSRYB104K50

C 5422 (A,25,75)

CKSSYB104K10

C 5154 (A,75,23)

CKSRYB103K50

C 5423 (A,35,72)

CKSSYB104K10

C 5155 (A,70,30)

CKSRYB104K50

C 5424 (A,18,70)

CKSSYB104K10

C 5156 (A,69,30)

CKSRYB104K50

C 5425 (A,19,70)

CKSSYB104K10

C 5157 (A,68,30)

CKSRYB104K50

C 5426 (A,20,70)

CKSSYB104K10

C 5158 (A,90,24) 33 uF/10 V

CCH1586

C 5427 (A,21,70)

CKSSYB104K10

C 5159 (A,89,22)

CKSRYB105K16

C 5428 (A,34,72)

CKSSYB104K10

C 5160 (A,79,27)

CKSRYB104K50

C 5429 (A,31,74)

CKSSYB104K10

C 5161 (A,81,26)

CKSQYF105Z25

C 5430 (A,30,75)

CKSSYB104K10

C 5163 (A,70,24)

CKSQYF105Z25

C 5431 (A,29,72)

CKSSYB104K10

C 5164 (A,68,24)

CKSQYF105Z25

C 5432 (A,27,72)

CKSSYB104K10

C 5165 (A,66,24)

CKSQYB225K16

C 5433 (A,25,72)

CKSSYB104K10

C 5166 (A,64,24)

CKSQYB225K16

C 5434 (A,54,69)

CKSSYB104K10

C 5167 (A,83,32)

CKSRYB105K16

C 5435 (A,54,66)

CKSSYB104K10

C 5168 (A,66,30)

CKSRYB105K16

C 5436 (A,23,68)

CKSSYB104K10

C 5169 (A,82,23)

CKSQYF105Z25

C 5437 (A,21,63)

CKSSYB104K10

C 5170 (A,63,24)

CKSRYB105K16

C 5438 (A,54,63)

CKSSYB104K10

C 5204 (A,5,16)

CKSRYB104K50

C 5439 (A,23,62)

CKSSYB104K10

C 5205 (A,12,14)

CKSRYB105K16

C 5440 (A,54,61)

CKSSYB104K10

C 5207 (A,28,10)

CKSRYB104K50

C 5441 (A,21,60)

CKSSYB104K10

C 5208 (A,25,6)

CKSRYB104K50

C 5442 (A,54,57)

CKSSYB104K10

C 5209 (A,31,13)

CKSRYB105K16

C 5443 (A,21,58)

CKSSYB104K10

C 5211 (A,27,10)

CKSRYB474K10

C 5444 (A,23,57)

CKSSYB104K10

C 5212 (A,28,3)

CKSSYB332K50

C 5445 (A,54,55)

CKSSYB104K10

C 5213 (A,28,7)

CKSRYB105K16

C 5447 (A,23,53)

CKSSYB104K10

C 5214 (A,30,3)

CKSSYB152K50

C 5448 (A,23,52)

CKSSYB104K10

C 5215 (A,42,17)

CKSSYB104K10

C 5449 (A,54,51)

CKSSYB104K10

C 5216 (A,31,14)

CKSRYB103K50

C 5450 (A,54,49)

CKSSYB104K10

C 5217 (A,38,4)

CKSRYB473K50

C 5451 (A,23,51)

CKSSYB104K10

C 5218 (A,37,11)

CKSRYB473K50

C 5453 (A,23,50)

CKSSYB104K10

C 5219 (A,40,11) 220 pF

CCG1260

C 5454 (A,23,48)

CKSSYB104K10

C 5220 (B,26,6) 10 uF

CCG1223

C 5455 (A,23,46)

CKSSYB104K10

C 5221 (B,18,7) 10 uF

CCG1223

C 5456 (A,54,45)

CKSSYB104K10

C 5222 (B,32,15)

CKSRYB105K16

C 5457 (A,22,44)

CKSRYB105K16

C 5223 (B,32,14)

CKSRYB105K16

C 5458 (A,49,40)

CKSSYB104K10

C 5224 (B,38,16)

CKSRYB104K50

C 5459 (A,42,40)

CKSSYB104K10

C 5225 (B,75,8) 22 pF

CCG1140

C 5460 (A,42,41)

CKSSYB104K10

C 5226 (A,67,4)

CKSRYB223K50

C 5461 (A,40,41)

CKSSYB104K10

C 5308 (A,84,68) 10 uF

CCG1171

C 5462 (A,35,41)

CKSSYB104K10

C 5309 (A,84,66) 10 uF

CCG1171

C 5463 (A,30,40)

CKSSYB104K10

C 5310 (A,80,68)

CKSSYB104K10

C 5464 (A,28,40)

CKSSYB104K10

C 5401 (A,49,73)

CCSSCH9R0D50

C 5465 (A,47,41)

CKSSYB104K10

C 5402 (A,46,73)

CCSSCH9R0D50

C 5466 (A,51,38)

CSZSR330M10

C 5403 (A,44,74)

CKSSYB104K10

C 5467 (A,53,72)

CKSSYB104K10

C 5404 (A,33,72)

CKSSYB104K10

C 5469 (A,18,66)

CKSSYB104K10

C 5405 (A,33,74)

CKSSYB104K10

C 5503 (A,57,17)

CSZS100M16

C 5406 (A,31,72)

CKSSYB104K10

C 5505 (A,11,44)

CKSSYB104K10

C 5407 (A,39,74)

CCSSCH4R0C50

C 5507 (A,12,52)

CKSSYB104K10

C 5410 (A,51,72)

CKSSYB104K10

C 5508 (A,13,41)

CKSRYB105K16

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<u>Circuit Symbol and No.</u>			<u>Part No.</u>			<u>Circuit Symbol and No.</u>			<u>Part No.</u>		
C 5509	(A,59,43)		CKSSYB104K10			MISCELLANEOUS					
C 5510	(A,13,38)		CKSRYB105K16			IC 1	(B,64,36) IC		NJM2391DL1-33		
C 5511	(A,10,42)		CKSSYB104K10			IC 3	(A,93,9) IC		NJM2388F84		A
C 5512	(A,14,29)		CKSSYB104K16			IC 5	(B,48,32) IC		TC7WH08FU		
C 5513	(A,9,39)		CSZSR220M16			Q 1	(B,79,23) Transistor		2SC4081		
C 5514	(A,8,51) 4.7 uF		CCG1111			Q 2	(B,76,7) Transistor		2SC4081		
C 5515	(A,8,36)		CKSRYB105K16			D 1	(B,70,37) Diode		S1G-6904G2P		
C 5516	(A,59,36)		CKSSYB104K10			D 2	(B,73,37) Diode		S1G-6904G2P		
C 5517	(A,60,39)		CSZS100M16			D 3	(B,76,37) Diode		S1G-6904G2P		
C 5518	(A,12,28)		CKSSYB104K10			L 1	(B,25,7) Inductor		LCTAW220J2520		
C 5519	(A,25,35)		CKSSYB104K10			L 2	(B,57,34) Inductor		CTF1379		
C 5520	(A,23,36)		CKSSYB104K10			L 3	(B,41,8) Inductor		LCTAW1R0J3225		
C 5521	(A,20,37)		CKSRYB104K50			L 4	(B,65,25) Inductor		LCTAW1R0J3225		
C 5522	(A,14,33)		CKSSYB104K16			P 1	(B,21,7) Surge Protector		IMSA-6801-01Y901		B
C 5523	(A,27,33)		CSZSR220M16			RESISTORS					
C 5524	(A,23,33)		CSZS100M16			R 2	(B,31,22)		RS1/16S681J		
C 5525	(A,20,32)		CKSQYB334K50			R 4	(B,55,26)		RS1/16S681J		
C 5526	(A,16,34) 4.7 uF		CCG1111			R 9	(B,43,22)		RS1/16S681J		
C 5527	(A,29,31)		CKSSYB104K10			R 10	(B,41,22)		RS1/16S681J		
C 5528	(A,25,31)		CKSSYB104K10			R 11	(B,38,22)		RS1/16S681J		
C 5529	(A,21,30)		CKSRYB104K50			R 12	(B,35,22)		RS1/16S681J		
C 5530	(A,18,31)		CKSSYB104K16			R 13	(B,78,8)		RS1/16S472J		
C 5601	(A,110,26)		CKSSYB104K10			R 14	(B,81,23)		RS1/16S472J		
C 5602	(A,112,26)		CKSSYB104K10			R 17	(B,100,17)		RS1/16S333J		C
C 5604	(A,129,33)		CKSSYB104K10			R 28	(B,100,15)		RS1/16S102J		
C 5605	(A,129,19) 4.7 uF		CCG1206			R 29	(B,102,15)		RS1/16S474J		
C 5606	(A,136,31)		CKSSYB104K10			R 35	(B,50,38)		RS1/16S102J		
C 5607	(A,114,25)		CKSSYB104K10			R 36	(B,46,38)		RS1/16S271J		
C 5608	(A,98,37)		CKSSYB104K10			R 37	(B,47,29)		RS1/16S473J		
C 5609	(A,123,17)		CKSSYB104K10			R 39	(B,78,21)		RS1/16S274J		
C 5610	(A,121,17)		CSZSC101M10			R 40	(B,74,9)		RS1/16S274J		
C 5611	(A,113,46)		CKSSYB104K10			R 41	(B,78,25)		RS1/16S224J		
C 5612	(A,120,22)		CKSSYB105K6R3			R 42	(B,72,7)		RS1/16S224J		
C 5701	(A,100,19)		CKSSYB102K50			CAPACITORS					D
C 5702	(A,100,23)		CKSSYB102K50			C 1	(B,30,8)		CKSRYB103K50		
C 5703	(A,96,22)		CKSSYB102K50			C 3	(B,58,27)		CKSRYB103K50		
C 5704	(A,101,26)		CKSSYB472K25			C 4	(B,59,25)		CKSQYB475K10		
C 5705	(A,99,25)		CKSSYB472K25			C 6	(B,66,21)		CKSRYB103K50		
C 5801	(A,104,48) 10 uF		CCG1171			C 9	(B,49,22)		CKSRYB103K50		
C 5802	(A,108,49)		CSZSC101M10			C 10	(B,64,27)		CKSRYB103K50		
C 5803	(A,110,50)		CKSSYB104K10			C 11	(B,69,31)		CKSQYB475K10		
C 5804	(A,103,48)		CKSSYB104K10			C 12	(B,47,22)		CKSRYB102K50		
C 5805	(A,97,68)		CSZSR330M10			C 13	(B,32,8)		CKSRYB104K16		
C 5808	(A,99,62)		CKSSYB104K10			C 14	(B,29,8)		CKSRYB102K50		E
C 5809	(A,103,71)		CKSSYB104K10			C 15	(B,79,5)		CKSRYB103K50		
C 5810	(A,131,46) 10 uF		CCG1171			C 17	(B,98,16)		CKSYB105K35		
C 5811	(A,97,44)		CKSRYB105K16			C 18	(B,38,7) 10 uF		CCG1236		
C 5812	(A,98,44)		CKSSYB104K10			C 21	(B,79,28)		CKSRYB474K10		
C 5813	(A,111,54)		CKSSYB104K10			C 22	(B,80,8)		CKSRYB474K10		
C 5814	(A,106,54)		CKSSYB104K10			C 23	(B,61,8) 10 uF		CCG1236		
C 5816	(A,111,50)		CKSSYB104K10			C 24	(B,52,32)		CKSRYB104K16		
C 5819	(A,115,69)		CKSSYB104K10			C 25	(B,81,21)		CKSRYB104K16		
C 5820	(A,105,71)		CKSSYB104K10			C 26	(B,76,10)		CKSRYB104K16		
C 5821	(A,108,73)		CKSSYB104K10			C 27	(B,82,6) 10 uF		CCG1236		F

I
Unit Number : CWN3130
Unit Name : Tuner BOX Unit

D
Unit Number : YWX5005

1				2				3				4				
Circuit Symbol and No.				Part No.				Circuit Symbol and No.				Part No.				
Unit Name : DVD Core Unit								R 1104	(B,69,47)				RS1/16SS561J			
								R 1107	(B,61,53)				RS1/16SS6R8J			
								R 1108	(B,65,53)				RS1/16SS6R8J			
								R 1109	(B,57,40)				RS1/10S1R5J			
MISCELLANEOUS																
IC 1003	(B,72,42)	IC	S-80859CNNB-B9K					R 1110	(B,63,40)				RS1/10S1R5J			
IC 1004	(B,75,48)	Regulator IC	NJM2880U1-05					R 1111	(B,70,40)				RS1/10S1R5J			
IC 1005	(B,61,58)	IC	S-L2980A50MC-C7J					R 1112	(B,64,40)				RS1/10S1R5J			
IC 1007	(B,82,54)	IC	NJM2885DL1-33					R 1113	(B,61,40)				RS1/10S1R5J			
IC 1008	(B,80,63)	IC	R1232D121B					R 1114	(B,59,40)				RS1/10S1R5J			
IC 1201	(A,26,15)	IC	BD7996EFV					R 1115	(B,66,40)				RS1/10S1R5J			
IC 1301	(B,90,27)	IC	TC7SZ125FU					R 1116	(B,68,40)				RS1/10S1R5J			
IC 1351	(B,86,27)	IC	TC7SZ08FU					R 1117	(B,64,49)				RS1/16SS104J			
IC 1352	(B,79,13)	IC	TC74LCX16373FT					R 1118	(B,70,49)				RS1/16SS104J			
IC 1401	(B,61,32)	Flash ROM Unit	CWW1439					R 1202	(A,19,12)				RS1/16SS221J			
IC 1402	(B,37,10)	Flash ROM Unit	CWW1440					R 1203	(A,19,11)				RS1/16SS221J			
IC 1403	(B,47,29)	IC	TC7SZ32FU					R 1210	(A,30,27)				RS1/16SS101J			
IC 1481	(B,60,12)	IC	EDS1232AATA-75-E					R 1211	(B,26,18)				RS1/16SS3R9J			
IC 1501	(A,60,19)	IC	MN2DS0016AAUB					R 1212	(B,27,18)				RS1/16SS3R9J			
IC 1801	(A,70,52)	D/A Converter	PCM1753DBQ					R 1214	(B,28,18)				RS1/16SS3R9J			
Q 1101	(B,62,50)	Transistor	2SC4081					R 1215	(B,29,18)				RS1/16SS3R9J			
Q 1102	(B,68,50)	Transistor	2SC4081					R 1216	(B,30,18)				RS1/16SS3R9J			
Q 1103	(B,60,45)	Transistor	2SB1260					R 1217	(B,31,18)				RS1/16SS3R9J			
Q 1104	(B,66,45)	Transistor	2SB1260					R 1219	(A,20,27)				RS1/16SS101J			
D 1002	(A,88,66)	Diode	1SR154-400					R 1223	(A,19,4)				RS1/16SS753J			
D 1301	(B,12,10)	Chip LED	CL205IRXTU					R 1225	(A,19,7)				RS1/16SS753J			
L 1004	(B,63,60)	Inductor	CTF1472					R 1227	(B,13,21)				RS1/16SS3R9J			
L 1005	(B,81,49)	Inductor	CTF1465					R 1228	(B,14,21)				RS1/16SS3R9J			
L 1006	(B,86,64)	Inductor	CTF1678					R 1229	(B,15,21)				RS1/16SS3R9J			
L 1007	(B,74,63)	Inductor	CTF1623					R 1230	(B,16,21)				RS1/16SS3R9J			
L 1101	(B,66,54)	Inductor	CTF1305					R 1231	(B,17,21)				RS1/16SS3R9J			
L 1482	(B,77,29)	Inductor	CTF1473					R 1232	(B,18,21)				RS1/16SS3R9J			
L 1502	(A,71,46)	Inductor	CTF1378					R 1233	(B,19,21)				RS1/16SS3R9J			
L 1503	(A,60,47)	Inductor	CTF1487					R 1234	(B,20,21)				RS1/16SS3R9J			
L 1504	(A,35,10)	Inductor	CTF1387					R 1240	(B,32,18)				RS1/16SS3R9J			
L 1511	(A,63,3)	Inductor	CTF1680					R 1241	(B,33,18)				RS1/16SS3R9J			
L 1601	(A,41,23)	Inductor	CTF1473					R 1242	(B,34,18)				RS1/16SS3R9J			
L 1602	(A,55,42)	Inductor	CTF1473					R 1243	(B,37,18)				RS1/16SS3R9J			
L 1603	(A,54,42)	Inductor	CTF1473					R 1244	(B,36,18)				RS1/16SS3R9J			
L 1604	(A,52,42)	Inductor	CTF1473					R 1245	(B,35,18)				RS1/16SS3R9J			
L 1605	(A,38,32)	Inductor	CTF1395					R 1301	(B,13,13)				RS1/16SS391J			
L 1671	(A,41,19)	Inductor	CTF1473					R 1302	(B,15,13)				RS1/16SS471J			
L 1672	(A,41,20)	Inductor	CTF1473					R 1304	(B,87,23)				RS1/16SS563J			
L 1673	(A,41,21)	Inductor	CTF1473					R 1305	(B,86,23)				RS1/16SS243J			
L 1801	(A,70,61)	Inductor	CTF1473					R 1306	(B,85,23)				RS1/16SS683J			
L 1901	(A,91,73)	Inductor	CTF1487					R 1307	(B,88,23)				RS1/16SS243J			
L 1902	(A,91,62)	Inductor	CTF1558					R 1314	(B,86,21)				RAB4CQ822J			
X 1501	(A,40,15)	Crystal 27.000 MHz	CSS1714					R 1351	(B,84,25)				RS1/16SS331J			
VR1671	(A,35,20)	Semi-fixed 10 kohm(B)	CCP1448					R 1401	(B,72,33)				RS1/16SS221J			
EF1501	(A,68,46)	EMI Filter	DTL1106					R 1402	(B,50,27)				RS1/16SS104J			
EF1502	(A,61,44)	EMI Filter	DTL1106					R 1405	(B,48,10)				RS1/16SS221J			
EF1901	(A,87,74)	EMI Filter	DTF1106					R 1406	(B,25,4)				RS1/16SS104J			
EF1903	(A,91,64)	EMI Filter	DTL1106					R 1407	(B,25,6)				RS1/16SS104J			

5		6		7		8	
<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>	
R 1508	(A,86,16)	RAB4CQ104J		R 1614	(A,46,35)	RS1/16SS105J	
R 1509	(A,86,12)	RAB4CQ104J		R 1615	(A,43,32)	RS1/16SS105J	
R 1510	(A,78,11)	RAB4CQ104J		R 1616	(A,53,36)	RS1/16SS2002D	
R 1511	(A,88,4)	RS1/16SS104J		R 1672	(A,43,21)	RS1/16SS303J	A
R 1512	(B,59,3)	RAB4CQ560J		R 1673	(A,37,22)	RS1/16SS183J	
R 1513	(A,44,4)	RS1/16SS102J		R 1674	(A,34,23)	RS1/16SS562J	
R 1514	(A,80,7)	RAB4CQ104J		R 1705	(A,55,57)	RS1/16SS101J	
R 1515	(A,43,3)	RS1/16SS102J		R 1706	(A,52,56)	RS1/16SS201J	
R 1516	(A,76,8)	RS1/16SS103J		R 1707	(A,55,51)	RS1/16SS101J	
R 1518	(A,85,5)	RS1/16SS104J		R 1708	(A,52,50)	RS1/16SS201J	
R 1520	(A,35,8)	RS1/16SS221J		R 1715	(A,60,56)	RS1/16SS201J	
R 1521	(A,41,11)	RAB4CQ101J		R 1716	(A,62,57)	RS1/16SS101J	
R 1522	(B,56,3)	RAB4CQ560J		R 1719	(A,60,50)	RS1/16SS201J	
R 1523	(A,39,11)	RS1/16SS101J		R 1720	(A,62,51)	RS1/16SS101J	
R 1524	(A,39,12)	RS1/16SS101J		R 1803	(A,72,56)	RS1/16SS821J	B
R 1525	(B,53,3)	RAB4CQ560J		R 1804	(A,74,56)	RS1/16SS821J	
R 1526	(A,36,10)	RS1/16SS270J		R 1805	(A,72,61)	RS1/16SS104J	
R 1528	(A,43,14)	RS1/16SS101J		R 1806	(A,74,61)	RS1/16SS104J	
R 1529	(B,53,22)	RAB4CQ560J		R 1903	(A,89,52)	RS1/16SS0R0J	
R 1530	(A,43,15)	RS1/16SS105J		R 1904	(A,90,59)	RS1/16S0R0J	
R 1531	(B,50,22)	RAB4CQ560J		<u>CAPACITORS</u>			
R 1532	(A,77,22)	RS1/16SS103J		C 1019	(B,58,59)	CCSSCH101J50	
R 1533	(A,76,27)	RS1/16SS103J		C 1020	(B,58,57)	CKSSYB104K10	
R 1534	(A,77,26)	RS1/16SS103J		C 1021	(B,60,60)	CKSRYB105K10	C
R 1535	(A,63,36)	RS1/16SS221J		C 1022	(B,79,47)	CKSSYB103K16	
R 1537	(A,67,40)	RS1/16SS221J		C 1023	(B,79,49)	CKSSYB104K10	
R 1538	(A,66,41)	RS1/16SS221J		C 1024	(B,71,48)	CKSQYB475K10	
R 1540	(A,70,43)	RS1/16SS102J		C 1025	(B,64,58)	CKSRYB105K10	
R 1541	(A,64,41)	RS1/16SS472J		C 1026	(B,12,19)	CKSSYB104K10	
R 1542	(A,60,36)	RS1/16SS223J		C 1027	(A,90,53)	CCSSCH101J50	
R 1543	(A,59,37)	RS1/16SS332J		C 1028	(B,89,56)	CKSRYB105K10	
R 1544	(A,57,41)	RS1/16SS183J		C 1029	(B,89,52)	CKSQYB225K10	
R 1545	(A,61,36)	RS1/16SS223J		C 1030	(B,84,59)	CKSQYB106K6R3	
R 1546	(A,59,42)	RS1/16SS104J		C 1031	(B,85,59)	CKSQYB106K6R3	
R 1547	(A,59,41)	RS1/16SS473J		C 1032	(B,82,59)	CKSRYB105K10	D
R 1548	(A,59,36)	RS1/16SS104J		C 1033	(B,73,59)	CKSQYB106K6R3	
R 1554	(A,60,39)	RS1/16SS221J		C 1034	(B,73,57)	CKSQYB106K6R3	
R 1555	(A,57,38)	RS1/16SS221J		C 1035	(B,45,27)	CCSSCH101J50	
R 1556	(A,43,7)	RS1/16SS104J		C 1101	(B,61,54) 10 µF	CCG1192	
R 1557	(A,57,39)	RS1/16SS104J		C 1102	(B,58,50) 100 µF	CCG1232	
R 1559	(A,63,41)	RS1/16SS221J		C 1103	(B,65,50) 100 µF	CCG1232	
R 1560	(A,68,42)	RAB4CQ104J		C 1104	(B,63,43)	CKSSYB104K10	
R 1562	(A,64,38)	RAB4CQ104J		C 1105	(B,70,43)	CKSSYB104K10	
R 1565	(A,73,36)	RS1/16SS103J		C 1106	(B,63,45)	CKSSYB103K16	
R 1566	(A,72,36)	RS1/16SS103J		C 1107	(B,70,45)	CKSSYB103K16	
R 1567	(B,68,22)	RAB4CQ560J		C 1108	(A,35,36)	CKSSYB103K16	E
R 1568	(B,65,22)	RAB4CQ560J		C 1109	(A,36,33)	CKSRYB105K10	
R 1569	(B,62,3)	RAB4CQ560J		C 1110	(A,35,37)	CKSSYB103K16	
R 1570	(B,60,22)	RAB4CQ560J		C 1111	(A,39,33)	CKSRYB105K10	
R 1571	(B,57,22)	RAB4CQ560J		C 1201	(B,21,11)	CEVW101M16	
R 1573	(B,63,19)	RS1/16SS560J		C 1202	(B,15,17)	CKSYB475K16	
R 1582	(A,81,25)	RS1/16SS103J		C 1207	(B,16,10)	CKSQYB225K10	
R 1583	(A,81,27)	RS1/16SS103J		C 1209	(A,32,17)	CKSSYB104K10	
R 1584	(A,77,28)	RS1/16SS103J		C 1210	(A,32,19)	CKSSYB471K50	
R 1601	(A,41,25)	RS1/16SS123J		C 1211	(A,19,16)	CKSSYB103K16	
R 1602	(A,39,24)	RS1/16SS123J		C 1212	(A,19,8)	CKSSYB104K10	F
R 1607	(A,41,27)	RS1/16SS105J		C 1213	(A,19,9)	CKSSYB104K10	
R 1609	(A,37,28)	RN1/16SE1002D		C 1301	(B,90,25)	CKSSYB104K10	
R 1610	(A,43,28)	RS1/16SS222J					
R 1613	(A,39,28)	RS1/16SS223J					

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3

4

Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

C 1302 (B,88,25)
C 1351 (B,86,25)
C 1352 (B,75,19)

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

C 1531 (A,57,42)
C 1536 (A,76,20)
C 1537 (A,55,43)

CKSSYB123K16
CKSSYB104K10
CKSSYB102K50

A

C 1353 (B,81,19)
C 1354 (B,74,7)
C 1355 (B,85,8)
C 1356 (B,83,28)
C 1401 (B,72,31)

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSYB106K6R3
CKSSYB103K16

C 1538 (A,53,43)
C 1539 (A,57,36)
C 1540 (A,61,38)
C 1560 (A,51,3)
C 1577 (A,77,30)

CKSSYB102K50
CKSSYB104K10
CKSSYB103K16
CKSSYB104K10
CKSSYB104K10

C 1402 (B,49,33)
C 1403 (B,81,27)
C 1405 (B,48,8)
C 1406 (B,25,15)
C 1407 (B,74,27)

CKSSYB104K10
CKSQYB475K6R3
CKSSYB103K16
CKSSYB104K10
CKSQYB475K6R3

C 1601 (A,41,24)
C 1602 (A,43,24)
C 1603 (A,37,23)
C 1604 (A,39,25)
C 1608 (A,41,26)

CCSSCH101J50
CCSSCH101J50
CCSSCH680J50
CCSSCH680J50
CKSSYB103K16

B

C 1408 (B,47,27)
C 1481 (B,72,5)
C 1482 (B,72,7)
C 1483 (B,67,5)
C 1484 (B,63,5)

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

C 1609 (A,43,26)
C 1610 (A,53,39)
C 1611 (A,53,37)
C 1612 (A,55,36)
C 1613 (A,55,37)

CKSSYB103K16
CCSSCH101J50
CKSSYB562K25
CKSSYB224K6R3
CKSSYB224K6R3

C 1485 (B,56,5)
C 1486 (B,53,5)
C 1487 (B,51,5)
C 1488 (B,49,5)
C 1490 (B,68,19)

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

C 1614 (A,56,37)
C 1615 (A,41,30)
C 1616 (A,48,36)
C 1617 (A,49,38)
C 1618 (A,51,38)

CKSSYB333K16
CKSRYB105K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

C

C 1491 (B,77,27)
C 1492 (B,55,19)
C 1493 (B,52,19)
C 1494 (B,65,19)
C 1496 (B,65,5)

CKSQYB106K6R3
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB102K50

C 1619 (A,51,36)
C 1620 (A,50,36)
C 1621 (A,50,38)
C 1622 (A,52,38)
C 1623 (A,52,39)

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

C 1497 (B,61,19)
C 1498 (B,77,26)
C 1499 (B,49,4)
C 1501 (A,68,44)
C 1502 (A,58,43)

CKSSYB102K50
CKSSYB102K50
CKSSYB102K50
CKSQYB106K6R3
CKSQYB106K6R3

C 1624 (A,43,27)
C 1625 (A,56,36)
C 1626 (A,41,31)
C 1627 (A,43,23)
C 1628 (A,54,36)

CKSSYB103K16
CKSSYB104K10
CKSRYB105K10
CKSSYB104K10
CKSSYB104K10

D

C 1503 (A,55,3)
C 1504 (A,58,3)
C 1505 (A,53,3)
C 1506 (A,60,3)
C 1507 (A,68,2)

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

C 1629 (A,49,36)
C 1630 (A,38,30)
C 1671 (A,43,18)
C 1672 (A,43,19)
C 1673 (A,37,21)

CKSSYB104K10
CKSQYB106K6R3
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

C 1508 (A,65,3)
C 1509 (A,69,2)
C 1510 (A,43,11)
C 1511 (A,76,7)
C 1512 (A,76,11)

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

C 1674 (A,39,21)
C 1675 (A,39,19)
C 1676 (A,37,19)
C 1677 (A,43,22)
C 1801 (A,74,52)

CKSSYB104K10
CKSRYB105K10
CKSRYB105K10
CKSSYB104K10
CKSSYB104K10

E

C 1513 (A,43,10)
C 1514 (A,76,17)
C 1515 (A,43,16)
C 1516 (A,76,15)
C 1517 (A,43,17)

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

C 1802 (A,67,58) 10 μ F
C 1803 (A,67,56)
C 1804 (A,69,58) 10 μ F
C 1805 (A,69,56)
C 1808 (A,72,57)

CCG1192
CKSSYB104K10
CCG1192
CKSSYB104K10
CCSRCH182J50

C 1518 (A,37,14)
C 1519 (A,37,16)
C 1521 (A,76,24)
C 1522 (A,77,24)
C 1523 (A,58,36)

CCSSCH8R0D50
CCSSCH8R0D50
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

C 1809 (A,75,57)
C 1810 (A,72,59)
C 1811 (A,74,59)
C 1901 (A,84,74)

CCSRCH182J50
CKSQYB475K6R3
CKSQYB475K6R3
CKSSYB102K50

F

C 1524 (A,57,37)
C 1525 (A,66,36)
C 1526 (A,62,40)
C 1527 (A,63,35)
C 1528 (A,65,36)

CKSSYB103K16
CKSSYB104K10
CKSSYB103K16
CKSSYB471K50
CKSSYB104K10

C 1529 (A,60,38)
C 1530 (A,59,39)

CKSSYB103K16
CKSSYB224K6R3

Q 1299 Photo-taransistor
S 1201 Spring Switch(12cm)
S 1202 Spring Switch(8cm)

CPT231SCTD
CSN1069
CSN1069

**Unit Number : CWX3595****Unit Name : Compound Unit(A)**

1

2

3

4

<u>Circuit Symbol and No.</u>		<u>Part No.</u>
S 1203	Spring Switch(DISC SENS)	CSN1069
S 1204	Spring Switch(DISC SENS)	CSN1070
S 1205	Spring Switch(8cm)	CSN1070
R 1298		RS1/16S0R0J
R 1299		RS1/16S0R0J

F

Unit Number : CWX3559

Unit Name : Compound Unit(B)

S 1206	Switch(CLAMP)	CSN1067
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Miscellaneous Parts List

	Pickup Unit(Service)	CXX2118
M 1	Motor Unit(LOADING)	CXC4912
M 2	Motor(STEPPING)	CXM1364
M 3	Motor(SPINDLE)	CXM1362
	Fan Motor	CXM1262
	LCD Module	CWX3264
	Touch Panel	CSX1115